

ECHOSTAR

go beyond the box.

Ultra Slim Box

HDT-610R



User Guide



HDMI
High Definition Multimedia Interface

DOLBY
DIGITAL PLUS

Freeview +HD



IMPORTANT SAFETY INFORMATION!

Read these instructions carefully before using the product.

Install Safely

- Unplug the power adaptor from the power socket during installation and follow all connection instructions.
- The power adaptor must remain easy to unplug from the power socket once the equipment is installed.
- Only connect the original power adaptor to the receiver. Other power adaptors may damage the circuitry and cause a fire risk.
- DO NOT place heavy objects on the power adaptor or receiver.
- Keep plastic packaging and small parts away from babies and children.

Prevent overheating

- Locate the power adaptor and receiver in an open, well ventilated area away from heat sources such as heaters, other electrical equipment or direct sunlight.
- DO NOT cover the receiver or power adaptor for example with curtains, cushions or tablecloths.

Protect from water

- DO NOT expose the power adaptor or receiver to rain, moisture, dripping or splashing.
- DO NOT place objects filled with liquids, such as vases or drinks, on or near the receiver or power adaptor.

General Precautions

- Keep new and used remote control batteries out of reach of children and ensure that the battery compartment is completely secure after replacing batteries. If swallowed, the battery can cause serious injury or death.
- DO NOT expose the remote control batteries to excessive heat such as fire or sunshine.
- DO NOT place naked flames such as lighted candles on or near the receiver or power adaptor.
- DO NOT remove the power adaptor cover due to risk of electric shock from live parts inside.

Equipment Care

- Unplug the power adaptor from the power socket before cleaning. Clean with a dry or slightly damp cloth.
- If the power adaptor or receiver is damaged, unplug it from the power socket and have it checked by qualified personnel before operating it any further.

Hard Drive

- DO NOT move the receiver whilst the power is on.
- DO NOT expose the receiver to intense vibration or magnetic objects, such as loud speakers, transformers etc.

Disposal

- The crossed-out wheeled bin symbol on electrical/electronic equipment, batteries or their packaging indicates that the electrical/electronic equipment or battery should not be disposed of with other household waste. They should be disposed of separately - contact the place of purchase or local authorities for details.
- Uncontrolled disposal of such waste can harm the environment and human health due to the presence of hazardous substances, so your role in preventing this is important.



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1. Introduction

Thank you for purchasing your EchoStar Ultra Slim Box HDT-610R **Freeview+ HD** digital TV recorder.

The HDT-610R is a state-of-the-art high definition digital TV recorder (DTR) combining dual channel **Freeview** terrestrial digital television reception with the flexibility of personal video recording. It is the complete entertainment solution: an advanced, high definition (HD) digital TV recorder combining Freeview+ HD, digital TV recording and access to Smart TV entertainment.

- Freeview+ HD – 50 jaw dropping digital channels including 4 in HD; all subscription free.
- Watch & record TV in high definition.
- Unique design; ultra slim case & award winning on-screen guide.
- Smart TV⁺ ready; entertainment on demand* & catch-up TV.
- High capacity recording; 300 hours in SD, or up to 125 hours in HD.
- Twin Tuner; pause live TV, record two programmes at the same time or a complete series.

* On demand services are provided by third parties and may be chargeable.

+ To get Smart TV features you must connect to the Internet using your broadband router; at least 2 Mbps download speed is recommended.

*About **Freeview***

Freeview currently offers 50 digital terrestrial TV channels with 4 channels in High Definition plus 25 radio channels including BBC and ITV. It is a subscription-free service with channels and services being added all the time.

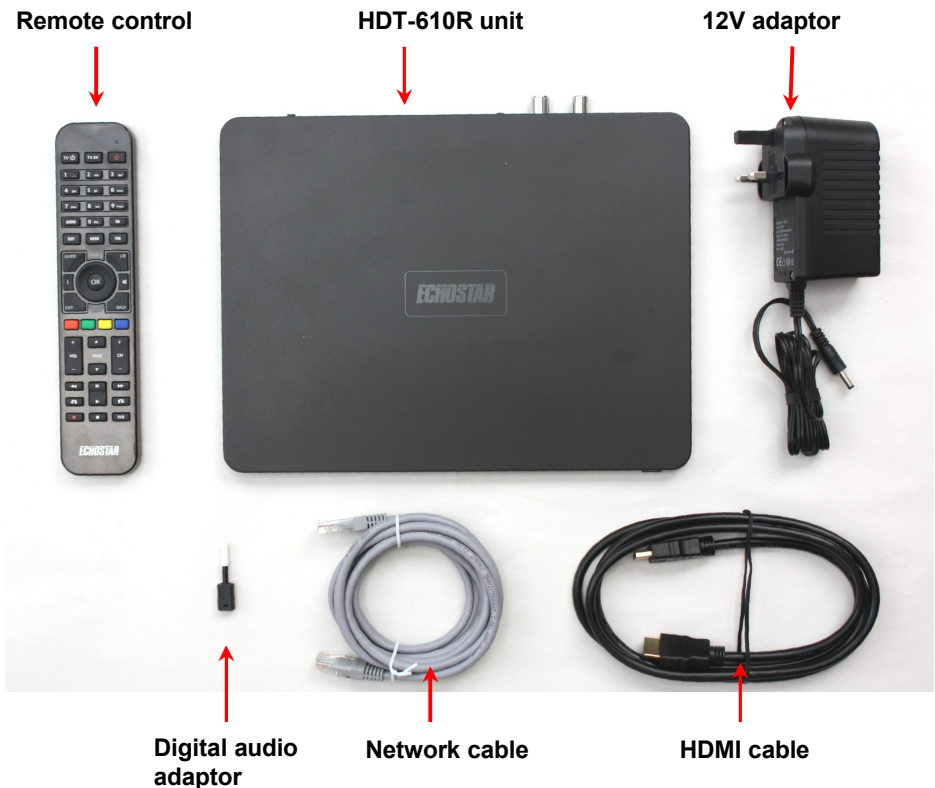
For more information, and a complete list of channels, visit:

www.freeview.co.uk

Unpacking the Box

Carefully unpack the box and familiarise yourself with each item:

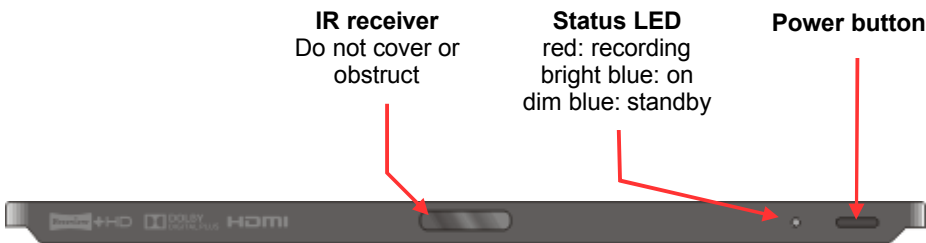
- The HDT-610R digital TV recorder
- 1 Power adaptor
- 1 HDMI cable (1.5m)
- 1 Network cable (2.0m)
- 1 Remote control (2xCR2032 batteries included)
- Digital audio adaptor
- Quick Start Guide
- Warranty Booklet



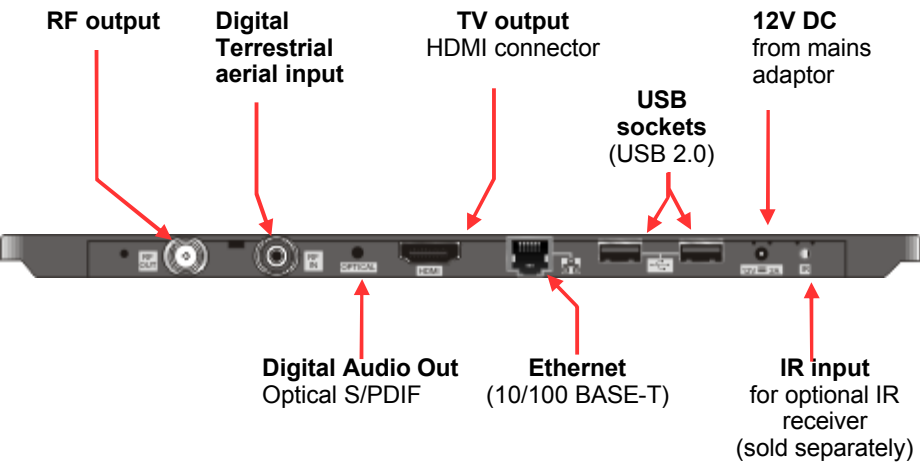
Controls and Connectors

This section shows the main features of your HDT-610R unit.

Front View



Rear View

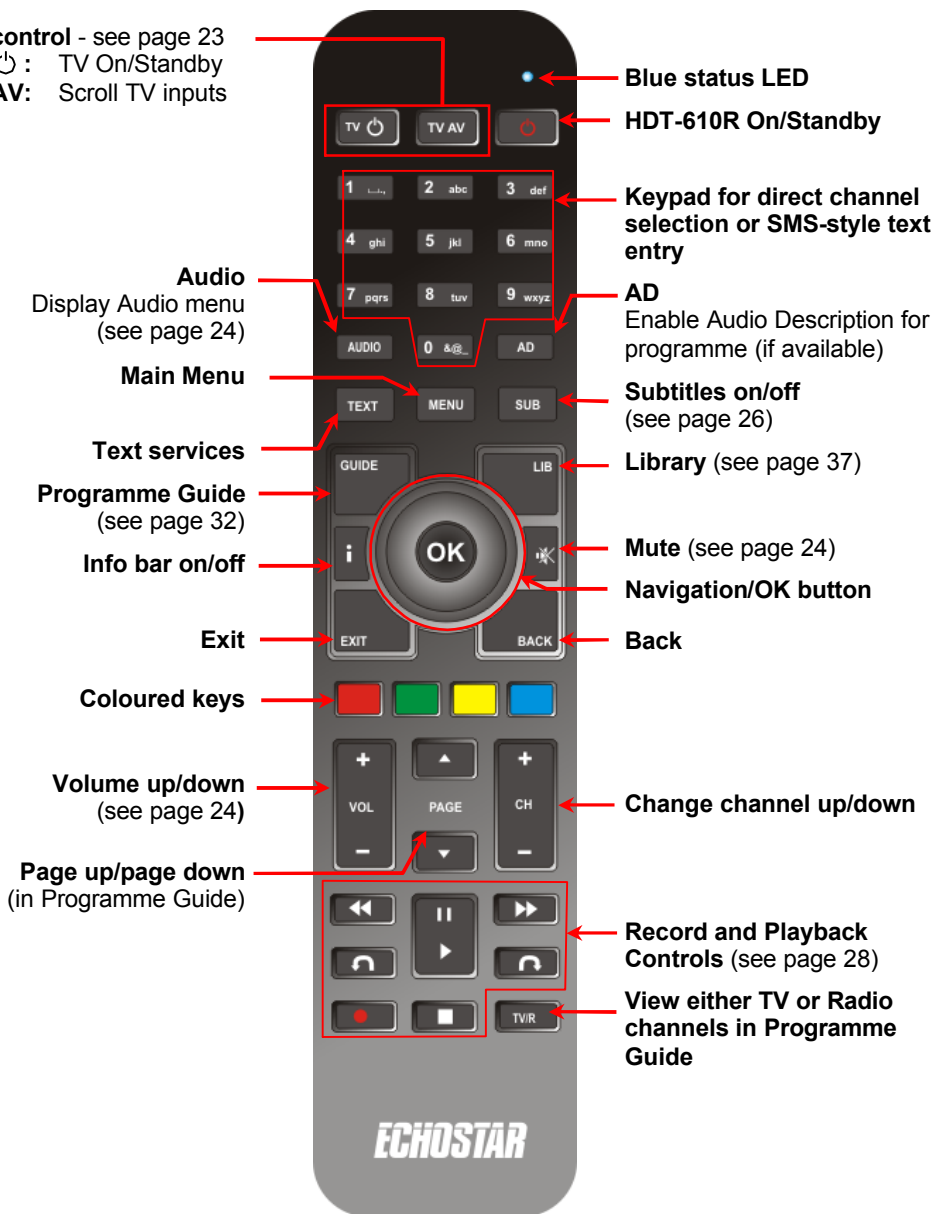


Remote Control

TV control - see page 23

TV : TV On/Standby

TV AV: Scroll TV inputs



2. Putting It All Together

This section describes the basic connections you need to operate the HDT-610R. Its rear panel has connections for audio and video equipment as well as a digital terrestrial aerial input.

You must connect your TV via the HDMI input. You can choose whether to play audio through the HDMI cable or through the digital audio output.

Digital Terrestrial Inputs

The HDT-610R is designed to use a single digital terrestrial aerial input.

Your TV aerial should be suitable for the reception of digital terrestrial signals.

Connecting to the Internet

The HDT-610R is designed to work with a wired Ethernet connection. If your router is not in the same room as your HDT-610R, you can use a pair of 'Power-line' devices (which use the home electrical wiring to carry the Ethernet signal).

Before connecting an Ethernet cable to the HDT-610R, unplug the HDT-610R from the mains. With the connection to your network in place, reconnect your HDT-610R to the mains. It may take the HDT-610R a few minutes to start up after connecting to the router for the first time.

To check your internet connection, see page 41.

Remote Control

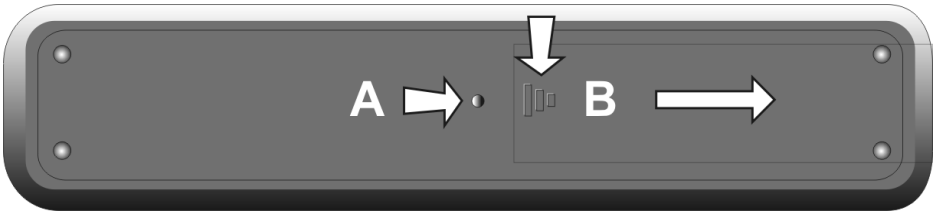
Pull and remove the battery insulator tab to activate the remote control.

Replacing the Batteries

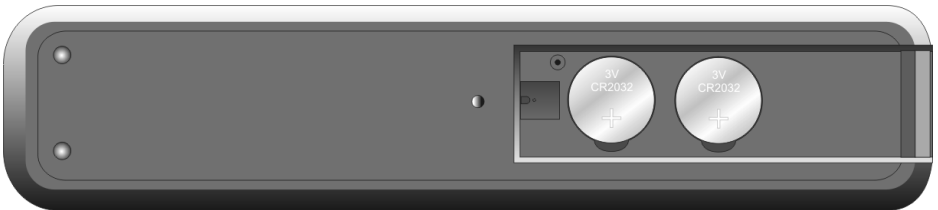
The unit displays a warning message on screen when the batteries need replacing. Also, the LED on the remote will make an additional flash after a button has been released.

The remote control is powered by two CR2032 batteries. To install new batteries:

1. Press the tip of a pointed tool such as a ball-point pen into the hole above the battery cover (A) as shown below. Press down towards the battery compartment, not in the direction of the plastic tab you can see through the hole.
2. At the same time, gently press down on the battery cover grooves and slide out the battery cover (B).

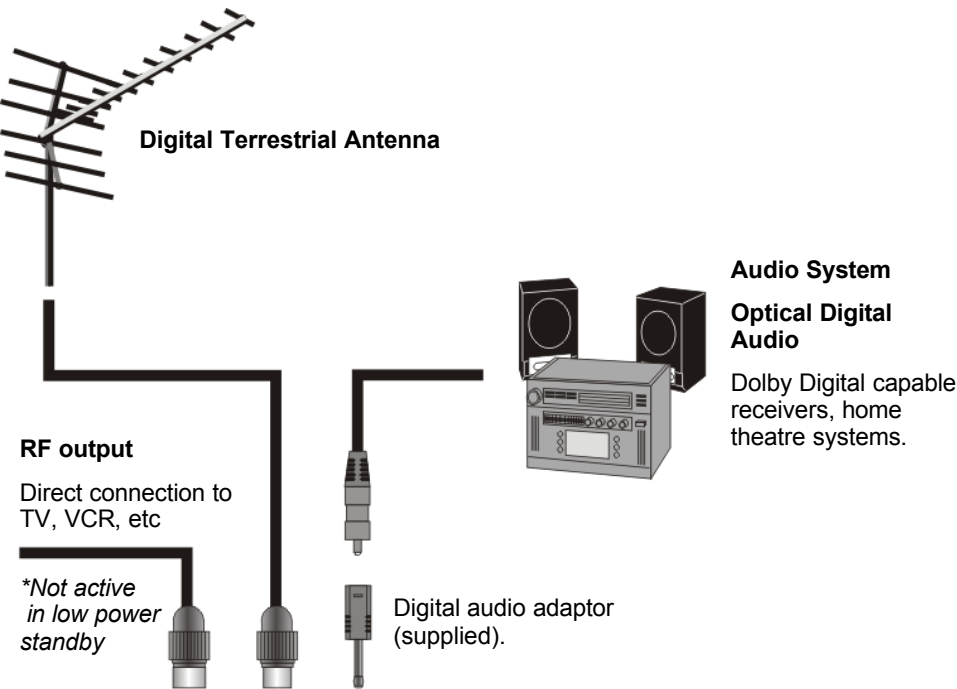


3. Remove the two CR2032 batteries and replace with new batteries. Make sure that the '+' mark on the batteries is uppermost and visible.



4. Replace the battery cover securely. Keep batteries out of reach of children.

Connections



TV

Connect using HDMI (cable supplied - only use good quality screened HDMI cables)



Internet

Connect to broadband router using supplied Ethernet cable (connection required for **catch-up TV** and **on-demand** functions)



Power

Connect to 12V power supply

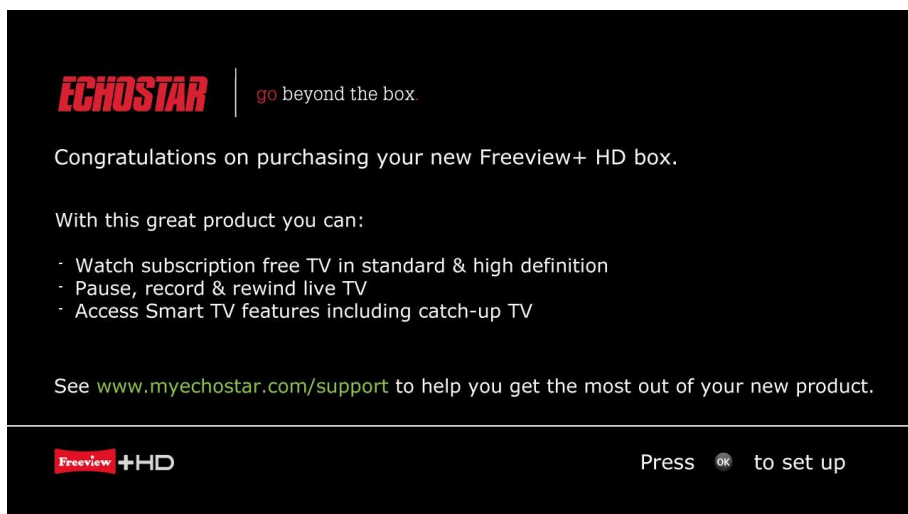
3. Getting Started

Before you switch on the power to your HDT-610R, check the following:

- Have you removed the battery insulator tab from the remote control?
- Is the unit connected correctly (see page 12)?
- Is the TV switched on?

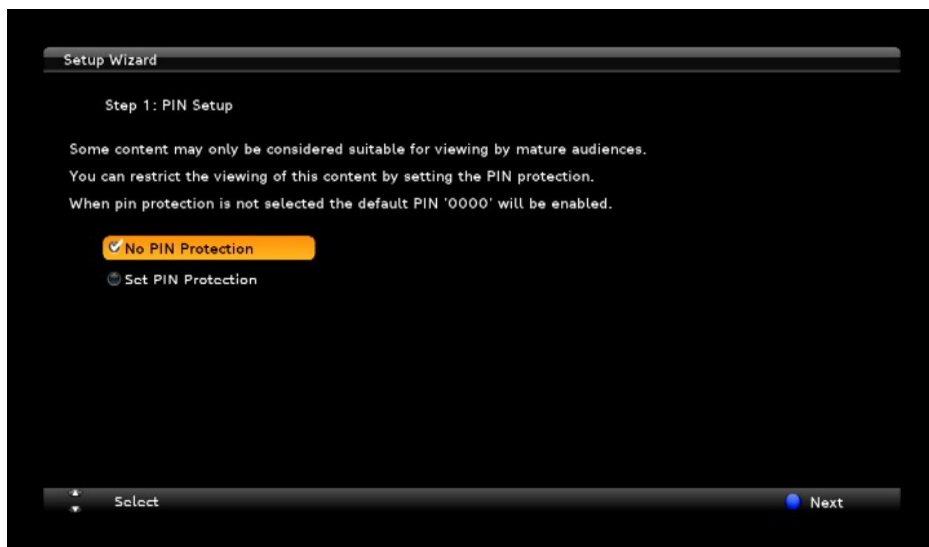
Switching on for the First Time

When you switch on your HDT-610R for the first time, it may take up to a minute for the unit to power up and display the Setup Wizard (see below). This will guide you through the process of setting up the HDT-610R and scanning for **Freeview** channels.



Follow the on-screen instructions: press **OK** to start the installation process.

STEP 1: Set the PIN (optional)



The HDT-610R now gives you the option to set a PIN code to restrict the viewing of any programmes broadcast or recorded with parental guidance advice. Before a user can view these programmes, they will need to enter the PIN code.

Tip. You can choose to enable or disable PIN protection at any time through the Settings menu (see page 40).

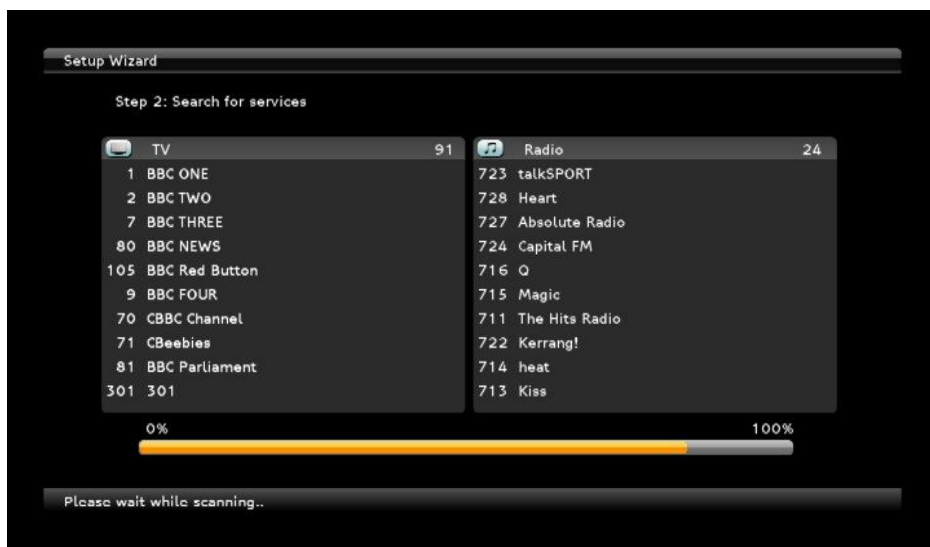
1. Use the menu navigation button to choose the required option:
 - No PIN Protection
 - Set PIN Protection
2. Press **OK** to accept.
3. If you select **Set PIN Protection**, use the numbered buttons on the remote to enter a PIN number.
4. Press the **BLUE** button to save the PIN.

Tip. If you don't enter a PIN, the unit will use the default code "0000". If you have forgotten your PIN, see page 40.

STEP 2: Search for Services

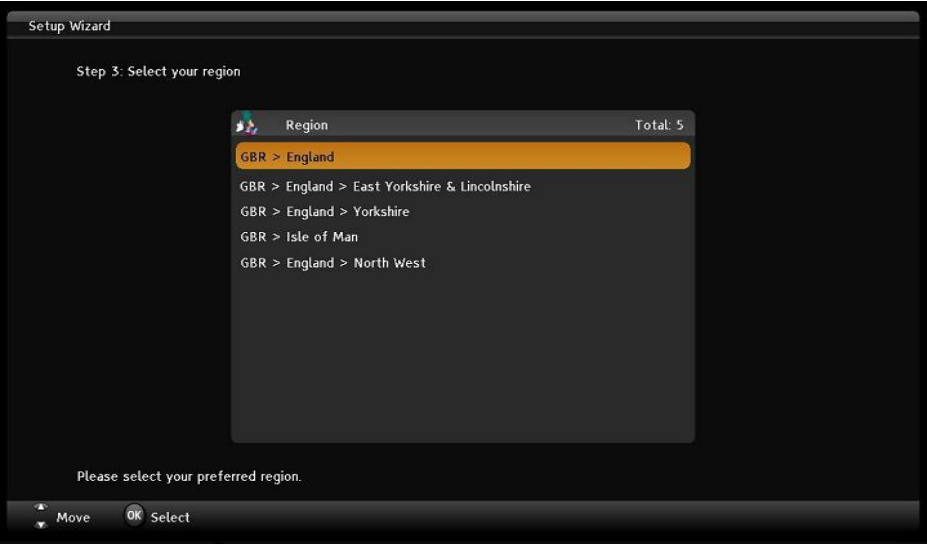


The HDT-610R starts a search for channels and compiles a list of the TV and Radio services it has found. The bar at the bottom of the screen indicates progress.



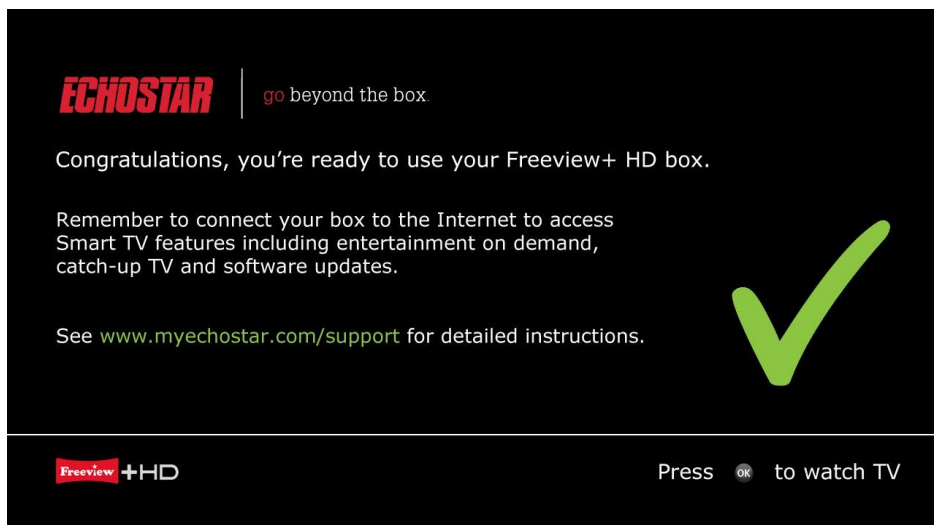
STEP 3: Select your region

Tip. You will only see this screen if you can receive signals from more than one transmitter.



Use the menu navigation button to highlight your preferred region.
Press the **OK** button to continue.

STEP 4: Watching TV



Once the HDT-610R has successfully completed its search for channels, the screen shown above is displayed.

Press **OK** to watch TV. The unit will show the first channel in its list of detected channels.

All done!

- To learn how to set up the remote for use with your TV, go to page 18.
- To find out how to make recordings, go to page 24.
- To read about the Programme Guide, go to page 27.

Controlling your TV

The HDT-610R remote control has a number of buttons that can be used to control your TV. These are:



Volume up/down Mute TV On/Standby TV source

To be able to use these buttons, your HDT-610R's remote needs to be programmed with a 4-digit code. This identifies the correct signals for your TV. The appropriate codes for your TV. An extensive list of codes covering the majority of TV models is included at the back of this manual - see page 47.

I have the code for my TV

To program the remote:

1. Hold down both the **CH+** and **VOL-** keys simultaneously for at least 2 seconds. The blue LED gives two slow flashes to indicate successful entry into the setup mode.
2. Using the numbered keys, enter the 4 digit code within 30 seconds. The LED will flash for each entry.
3. After the fourth digit entry, the blue LED gives two slow flashes to indicate that the code has been successfully programmed.

In the event of an error, the LED gives four rapid flashes. If this occurs, you will need to repeat this process.

There are several codes for my TV

Where several codes are listed by a manufacturer, it may be necessary to repeat the above sequence with each code until the correct one is found.

Viewing



Changing Channel

You can change channel in several ways:

- Press the channel up or channel down key.
- Enter the channel number.
- Press **OK** to display the channel list and use the navigation button to select the desired channel and then press **OK** to view.
- To see a list of all available channels, press the **GUIDE** key.

Whenever you change channel, the information bar is displayed across the bottom of the screen for a few seconds.

Sound Controls

Tip. You will need to program the **VOL+/-** and **MUTE** keys to function with your TV (see page 18).



The Audio menu

Press the **AUDIO** key to view audio options. Use the arrow keys to select the required option. Press **OK**.

Muting the sound

To turn the sound off, press the **MUTE** button. To restore sound, press the **MUTE** button again or use the **VOL +/-** button.

Adjusting the volume

To adjust the sound level, use the **VOL+ /-** button on the remote.

The Information Bar



A banner is displayed across the bottom of the screen for a few seconds whenever you change channel. It shows details about the current channel and programme.

More detailed information can be displayed at any time by pressing the **i** key.

Press the navigation button up or down to view different channels.

Press the navigation button left or right to browse across the programmes scheduled for transmission on this channel.

Press the **GREEN** key to set a reminder; the unit will alert you when the program is about to start (see page 28).

Press the **BLUE** key to change the picture resolution (the current resolution is shown in the top right corner of the info bar's symbol area).

Press the **Record** button to record the highlighted programme (or stop the recording if it is already in progress).



Tip. The icons on the right hand side give you additional information about the programme (see page 63). In the example here, the icons show the display resolution (720p), the availability of multiple audio components, subtitles and text services, that the programme is part of a series, and that it is a HD transmission.

Subtitles

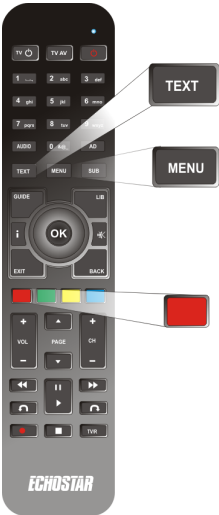


Press the **SUB** key to display the Subtitle menu.

Press the navigation button up or down to select the subtitle language. Press **OK** to select.

Tip. If you use subtitles, you won't be able to access text services at the same time. For Language selection, see page 37.

Text and Interactive Services



Some channels (BBC, ITV) offer text or interactive services. Press the **TEXT** key to display the service. These services are only available when you are watching live TV with subtitles off.



Watching catch-up and On Demand TV

catch-up TV

To access BBC iPlayer, and other catch-up TV services, your HDT-610R must be connected to a suitable broadband connection.

You can also access BBC iPlayer from some BBC channels.

1. Press the **TEXT** or **RED** button.
2. Follow the on-screen instructions to access BBC iPlayer.

On Demand TV

To access on-demand services, your HDT-610R must be connected to a suitable broadband connection.

1. Press the **MENU** button.
2. Using the navigation keys, highlight the **Apps** icon and press **OK**.
3. Using the navigation keys, select the on-demand service required and press **OK**.

If no icons are shown in the *Apps* menu then no on demand services are currently available. Check back later for updates or go to www.myechostar.com for the latest news.

Pause, Rewind and Fast Forward

When watching TV, there's no need to miss any of the action. You can pause "live" TV for up to one hour. You can rewind a programme to see a scene again and then fast forward onwards to rejoin the live action.

When you pause a programme, the unit will continue to save the output from the current channel for up to one hour. Thereafter, it will begin to play back the programme from where you left off and continue to save live transmissions.

Tip. The HDT-610R saves up to one hour of the current channel's transmissions for you to rewind and replay. This buffer is reset whenever you change channel: you can only rewind as far as the last channel change.

PLAY: resume your viewing after pausing, rewinding or fast forwarding.

FAST REWIND: rewind the programme. Repeated presses of the button doubles the rewind speed up to 64 times normal playing speed.

SKIP BACKWARD: 'rewind' the programme by 10 seconds.



PAUSE: pause playback.

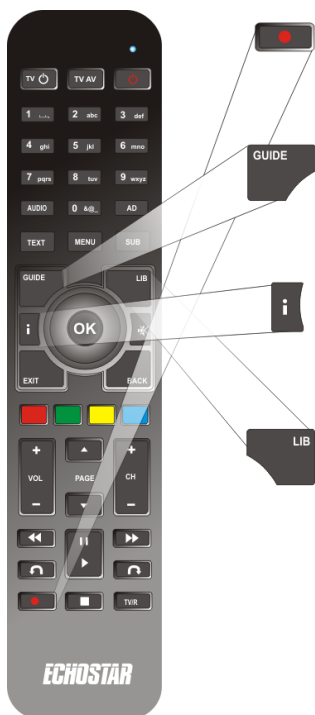
FAST FORWARD: double the playing speed. Repeated presses of the button doubles the fast forward speed up to 64 times normal playing speed.

SKIP FORWARD: advance viewing by 30 seconds.

STOP: halt the current programme.

Tip. These buttons have the same functions when you are viewing recorded programmes.

Recording Programmes




Press the **Record** button to start recording the programme you are viewing.

If you want to record a different channel:

- Press the **GUIDE** button, browse to and highlight the programme you want to record (see page 29) and then press the **Record** button.
- Press the **INFO** button, browse to and highlight the programme you want to record (see page 20) and then press the **Record** button.

Press the **LIB** button to access previously recorded programmes (see page 32).

You can also access the Library (see page 32) from the main menu (see page 26).


To show that a programme is scheduled to be recorded, a  symbol is shown in the icon section (see page 63) of the Info bar and Favourites list. In the Programme Guide, the scheduled programme is highlighted in red.

If you change your mind, and want to cancel a scheduled recording:

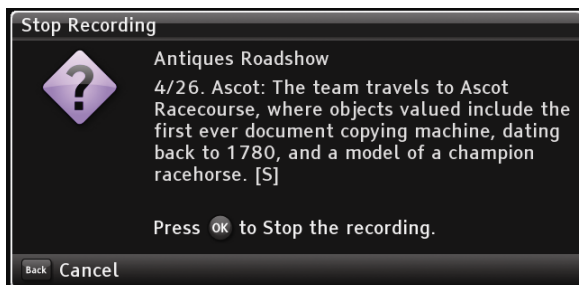
1. Select the programme in the Programme Guide.
2. Press the **Record** button.
3. Press the red button to cancel the recording.
4. Press **OK** to confirm.

Tip. Current and future recordings are listed in the **Library** under *Scheduled Recordings* and can be edited or deleted there (see page 32).

Stopping a Recording

To cancel the recording of a live programme, press the  (stop) button.

Press the **OK** button to stop the recording or press the **BACK** button to dismiss the message and continue recording the programme.



Tip. To stop the recording of a future programme, select it in the guide (see page 29) or info bar (see page 20), press the Record button and then follow the on-screen prompts.

Series Linking

When you press the record button, the HDT-610R displays this message if the programme is part of a series.

To just record the selected programme:

1. Press the navigation button down to highlight *Record Just This Programme*.
2. Press **OK**.

To record the selected programme and automatically record all other programmes in the same series, simply press the **OK** button.



4. Moving On

The previous chapter described the basic use of your HDT-610R unit for watching TV and for making and viewing recordings. This section describes the onscreen Main Menu. Within the Main Menu you have access to the Programme Guide, your Favourites Lists, Library, Apps and Settings.

The Main Menu

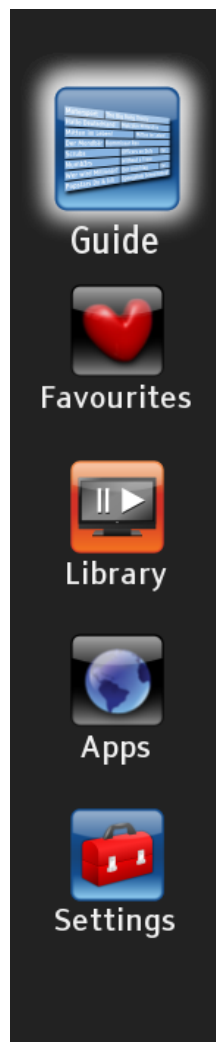


Press the **MENU** button on the remote to access the unit's advanced functions:

- Guide (see page 27)
- Favourites (see page 30)
- Library (see page 32)
- Apps (see page 36)
- Settings (see page 37)

The Main Menu bar is displayed on the left side of the screen. To navigate the main menu and its sub-menus, use the navigation button on the remote to highlight the option you want and press the **OK** button to select it.

Press the **EXIT** button to hide the Main Menu bar.



Using the Guide

The Guide lists all the channels you can view and has programme details for up to 7 days. You can use the guide to select your current viewing channel, to record another programme or to schedule future recordings.



Press the **GUIDE** key.

Press the navigation button up or down to select the channel of interest and then left or right to view current and future program details.

Press the **OK** key to view a highlighted program (if it is currently being broadcast). If the program is not currently being broadcast, pressing the **OK** button will set a reminder (see below).

Press the **EXIT** key to return to your current program.

The **RED**, **GREEN**, **YELLOW** and **BLUE** keys can be used to move the guide information forward or back by 2.5 hours or 1 day at a time.

Tip. When in normal TV viewing mode, use the TV/Radio key to toggle between radio and TV services.

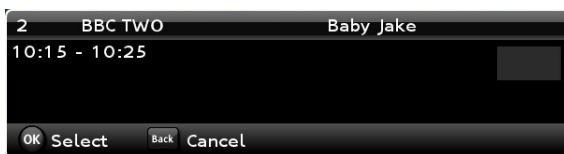
Setting Reminders

You can set a reminder from the Info bar (see page 20) or from the Guide (see above). When you do so, the HDT-610R will alert you two minutes before the programme is scheduled to start so you can switch channels or record the programme. Unless you cancel the alert, it will remain on screen until two minutes after the scheduled start time.

Programmes with a reminder set are highlighted in green in the programme guide and have a green circle in the symbols area of the guide and info bar (see page 63).

Dealing with a reminder

- Press **OK** to switch channels and view the programme.
- Press the **BACK** button to dismiss the reminder and continue with your viewing.



Using Programme Information

Within a channel list, use the navigation button to select the channel of interest and highlight programmes. Information about the programme is provided by the information icons (see page 63).

Use the coloured buttons to move the guide information forward or back by 2.5 hrs (a full screen) or 1 day at a time:

RED Move guide back by 2.5 hours (not available for programmes already broadcast).

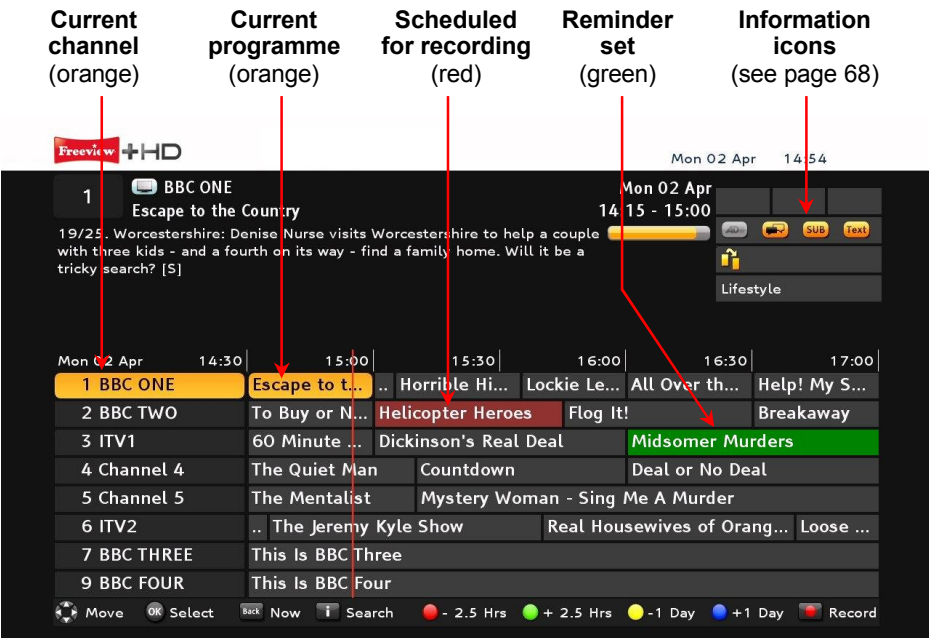
GREEN Move guide forward by 2.5 hours (a full screen).

YELLOW Move guide back by 1 day (not available for programmes already broadcast).

BLUE Move guide forward by 1 day.

Press **OK** to set a reminder for the highlighted programme.

Press the **Record** button to record the highlighted programme (or to stop a recording if it is already scheduled or in progress).

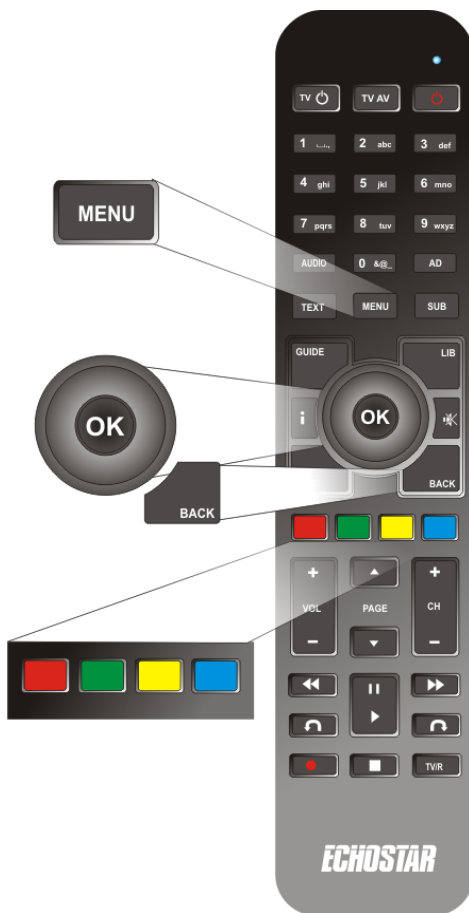


Favourites

freeview provides you with access to over 50 TV channels. Finding your usual viewing channels in the Guide listings can therefore be difficult and time-consuming. To make channel selection easier, you can create up to four Favourites lists: reduced listings showing just those channels that you watch regularly.

To select or edit a Favourites list:

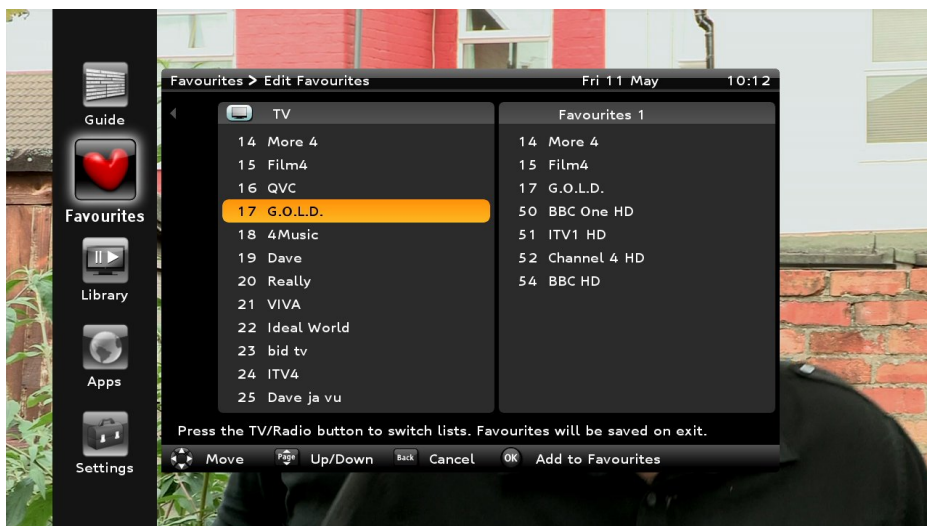
1. Press the **Main Menu** button.
2. Use the navigation button to highlight **FAVOURITES** and then press **OK**.
3. Use the navigation button to highlight the Favourites list you want to set up or edit: lists are named Favourites 1, 2, 3 or 4. By default, the Favourites feature is turned off.
4. Choose one of the following options:
 - To set-up or edit the selected list, press the **YELLOW** button. Go to section *Editing a Favourites List* on page 31.
 - To change the name of the selected favourite list, press the **GREEN** button. Go to *Renaming a Favourites List* on page 31.
 - To select an existing favourites list press the **OK** button. If the list has been set up, the unit enables it for channel selection. If the list is empty, a status message is displayed; press the **OK** button again to continue.
 - To clear the selected list, click on the **RED** button.



Use the **CH** buttons (see page 19) or the Information bar (see page 20) to select channels from within an active Favourites list.

Editing a Favourites List

From the Favourites menu (see page 30), press the **YELLOW** button to create or edit the selected *Favourites* list. Press the **TV/RADIO** key on the remote to toggle between radio and TV services.



Adding channels

To add a channel to the selected Favourites list, select it in the left-hand list using the navigation button and then press **OK**. Repeat the procedure to add further channels to the list.

Deleting channels

To delete a channel, select it in the Favourites list and then press the **RED** button.

Renaming a Favourites List

From the Favourites menu (see page 30), press the **GREEN** button to change the name of the selected Favourites list. You can use the numeric keys to enter your text in multi-tap style or, alternatively, press the **YELLOW** button to use a virtual keyboard.

- In multi-tap style, press the **BLUE** button to switch to capital letters.
- In virtual keyboard mode, press the **BLUE** button to switch to symbols.

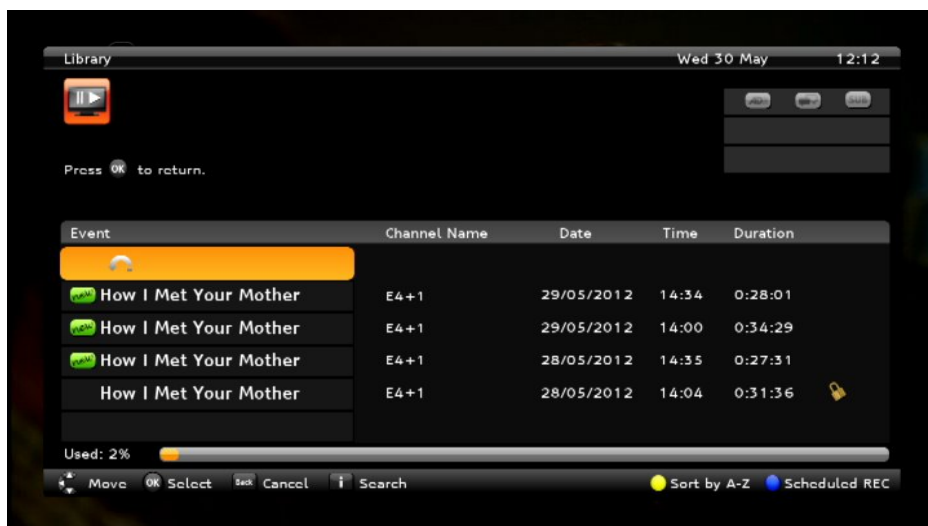
Press the **GREEN** button to save the new name or the **BACK** button to discard any changes and revert to the original name.

Using the Library

The Library stores your recorded programmes and information about future recording events (timers). You can access the **Library** from the Main Menu or directly by pressing the **LIB** key on the remote control. To help you manage your recordings and timers, the Library has three views:

- **Library:** lists all your completed and saved recordings.
- **Scheduled Recordings:** a list of pending timers.
- **Daily Schedule:** a history of your programme recording activities.

You can cycle between the *Library*, *Scheduled Recording* and *Daily Schedule* views by pressing the **BLUE** key.



Tip. Your HDT-610R is fitted with a 500GB hard drive with a capacity to record about 125 hours of HD programmes or 300 hours of SD programmes. In the lower left corner of the *Library* screen the HDT-610R displays the percentage of the drive currently occupied by recorded programmes.

Playing a recorded programme

Use the navigation button to highlight the recording you want to view and press **OK**. If you have viewed the recorded programme previously you can choose to resume viewing or restart from the beginning of the recording.

At the end of the recording the *Library* menu is re-displayed.

Sorting the Library

You can list Library programmes either in time order, with the most recently recorded programmes at the top of the list, or alphabetically. Press the **YELLOW** key to switch between the two arrangements.

Deleting a recording or folder

Recorded programmes remain in the Library until you manually delete them using this procedure. You can delete individual programmes or a complete series of programmes stored in a folder.

1. Select the recording or folder you want to delete using the navigation button.
2. Press the **RED** button.
3. Press the **OK** button to confirm or **BACK** to cancel.

Options

With a library programme selected, press the **GREEN** button to view the *Options* menu. This allows you to change a selected programme's 'New' status, its displayed name, or to apply PIN protection.

Renaming a programme

1. Select the programme in the Library list. Press the **GREEN** button.
2. Use the navigation button to select *Rename*. Press the **OK** button.
3. Use the *multi-tap entry method* screen to enter a new name.
4. Press the **GREEN** button to save the new name or the **BACK** button to discard any changes and revert to the original name.

Locking/unlocking recordings

1. Select the programme in the Library list. Press the **GREEN** button.
2. Use the navigation button to select *Lock*. Press the **OK** button.
3. If the recording has previously been locked, you will need to enter the password to unlock it.

Changing the New status



A 'New' icon is automatically displayed alongside a library recording until you watch it for the first time. Through the Options menu, you can also change the status of any recording to display or hide the 'New' icon:

1. Select the programme in the Library list. Press the **GREEN** button.
2. Use the navigation button to select *New status*. Press the **OK** button.
3. Change the status to *ON* to display the 'New' icon alongside the recording or *OFF* to remove it.

Managing Scheduled Recordings

From the *Library* view, press the **BLUE** button to switch to *Scheduled Recordings*. This lists current and future recordings.

Type	Timer Name	Channel Name	Date	Start	Mins	Rep
Auto	Helicopter Heroes	BBC TWO	02/04/2012	15:00	045	
Auto	Neighbours	Channel 5	02/04/2012	17:30	030	
Auto	Home and Away	5*	02/04/2012	18:30	030	
Auto	Emmerdale	ITV1	02/04/2012	19:00	030	
Auto	Coronation Street	ITV1	02/04/2012	19:30	030	
Auto	Mainstream with Matt ...	QUEST	03/04/2012	11:00	030	
Auto	Cash in the Attic	BBC ONE	03/04/2012	11:45	030	
Auto	Salvage Hunters	QUEST	03/04/2012	12:00	060	
Auto	Doctors	BBC One HD	03/04/2012	13:45	030	
Auto	Coast	BBC TWO	03/04/2012	19:00	060	
<input checked="" type="checkbox"/> Auto	Get Your House in Order	Channel 4 HD	05/04/2012	20:00	060	
Auto	Ooglies	BBC TWO	07/04/2012	11:25	015	
Auto	MOTD Kickabout	BBC TWO	07/04/2012	11:40	020	
Auto	Antiques Road Trip	-----	--/--/--	----	----	

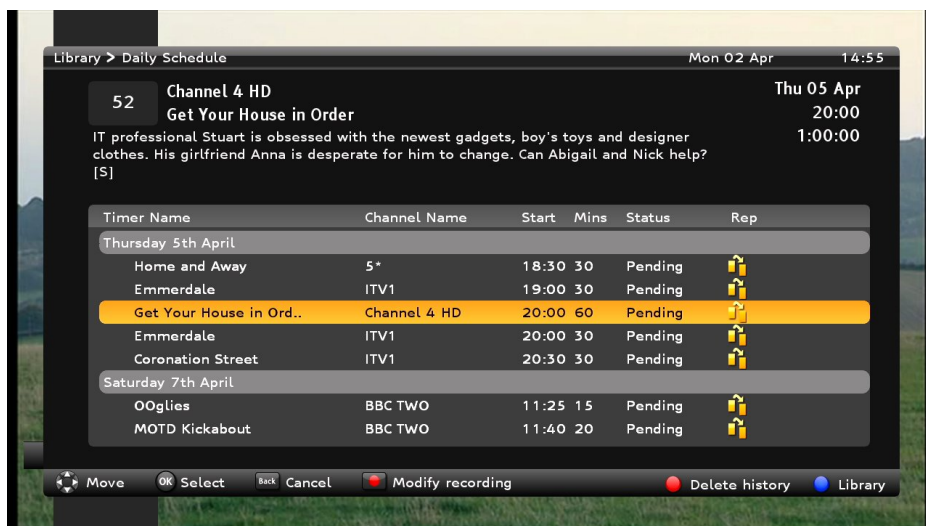
Deleting a scheduled recording

To delete a scheduled recording (a timer):

1. Select the listing to be deleted using the navigation button.
2. Press the **RED** button to delete an existing timer.
3. Press **OK** to save settings.

The Daily Schedule

From the *Scheduled Recordings* view, press the **BLUE** button to switch to the *Daily Schedule*. This logs information about your recording events. If a recording has not completed successfully, you will find information here that may explain the problem. For example, a recording may have been cancelled because of a channel clash.



Modifying a Recording

The Daily Schedule allows you to modify any pending timer events. For example, you can choose to record alternative airings of a programme. To modify the recording:

1. Use the navigation button to select the programme (timer) name.
2. Press the **Record** button.
3. Choose from the displayed options: delete the timer event or move it to an alternative showing of the programme (if available).

Deleting the Daily Schedule history

Over time, the Daily Schedule list may become large and difficult to use. Press the **RED** button to clear the history and restart the list.

Using Apps

The Apps menu is reserved for future Internet-based Smart TV services. Apps will be added to this menu automatically as they become available as part of HDT-610R software updates (see page 43).

To get Smart TV features, you must connect to the Internet using your broadband router; at least 2 Mbps download speed is recommended. Some Smart TV services are provided by third parties and may therefore be chargeable.

5. Settings

The *Settings* menu allows you to configure the unit and to set personal preferences. Use the navigation button to highlight items. Press the **OK** key to choose an option.

Note. In the following tables, a setting marked by a * symbol is the default factory setting.

The *Settings* menu categories are:

- Languages
- TV, Audio & Library Setup
- Parental Control
- User Preferences
- Network Setup
- Power Options
- Technical Info
- Tuning
- Factory Reset

Languages

The *Languages* menu allows you to choose the primary options for *Subtitles*, *Data Services* (digital interactive services) & *Primary Audio*:

Subtitles	Off* English Welsh Gaelic
Data Service	Off English* Welsh Gaelic
Primary Audio	English* Welsh Gaelic Irish
Audio Description	Off* On

TV, Audio & Library Setup

The *TV, Audio & Library* menu allows you to select the correct display and audio outputs to suit your TV and to set up the Library settings for the recording and playback of programmes. The following table lists the options. Please visit www.mychostar.com/support if you need any help.

Category	Menu	Sub-menu	Options
HD TV Setup	HD Resolution		576p 720p 1080i 1080p Best Available*
	Picture Format		4.3 deep pillarbox 14.9 pillarbox 16.9 centre cutout Recommended* Anamorphic "stretch"
	Restore Default Settings		
Audio Delay			Digital Audio Output
Digital Audio Setup	HDMI		Auto Stereo/Surround* Stereo Only
	Optical Digital Audio		Stereo only Multi-Channel*
	Midnight mode		Off* On

Category	Menu	Sub-menu	Options
HDCP Setup			Always On* Automatic
Library Setup	Recording Setup	Recording Start:	Timed Auto*
		Auto Conflict Resolution	No* Yes
		Series Recording	Never Always Prompt*
		Allow Recommendations	Off On*
	Playback Setup	Default Skip Forward	10 Seconds* 30 Seconds 45 Seconds 60 Seconds
		Default Skip Backward	10 Seconds* 30 Seconds 45 Seconds 60 Seconds
	Re-Initialise Hard Disk	CAUTION! THIS WILL DELETE ALL YOUR RECORDINGS	
	Check for disk errors	Performs a disk check – WARNING, this may take several hours and you will not be able to watch TV or record during this process	
Screen-saver			Off On*

Parental Control

This menu allows you to safeguard your children from unsuitable programmes by restricting their access to certain channels, content or features. Parental Control relies on you creating and applying a secure PIN code to channels or programmes. It should be memorable for you, but not for your children, and you should change it regularly.

Tip: If you forget your PIN then use “2846” to gain access and set a new PIN immediately.

The Parental Control menu options are as follows:

Change PIN	Choose this option to enter and confirm a new PIN.
Service Locks	<p>Apply PIN protection to one or more channels.</p> <p>Use the arrow keys to highlight the channel you want to lock; then press the OK button.</p> <p><i>Tip: use the Page Up/Page Down keys to step through the guide.</i></p> <p>If you want to watch a locked channel, press the RED button and enter the PIN code.</p>
Pin Protection	<p>Protect all recorded programmes which carry a guidance notice. If an attempt is made to play such a recording before the 9pm watershed, the viewer is prompted to enter the PIN code.</p> <p><i>PIN Required</i> <i>PIN Not Required*</i></p>
IP Pin Protection	<p>Choose PIN protection settings for content accessed via the Internet</p> <p><i>Required for everything</i> <i>Guidance programmes only</i> <i>Not Required*</i></p>

User Preferences

Use this menu to change the appearance of text in the settings menus.

Transparency	<i>Solid</i> (Menu background is opaque but clearer) <i>Low</i> <i>Medium*</i> <i>High</i> (Menu backgrounds are fully transparent)
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Network Setup

This menu can be used to view and configure network settings.

Internet Interactive Content	On*/Off
Internet Connectivity	On*/Off
Wired Connection Settings	In most cases, <i>Auto Setup</i> will correctly configure your network and internet connection via a local DHCP server or DHCP-enable router. If you encounter any networking problems, visit www.myechostar.com/support . It may be necessary to disable <i>Auto Setup</i> to configure the connection manually. Unless this is the case, or you are an experienced with network configurations, you are not recommended to change this setting.

Power Options

Power-saving settings can be configured using this menu. Options allow you to select the power consumption in standby mode.

Power Mode Power saving mode used when unit enters standby:	<i>Low power standby*</i> Lowest power consumption but the receiver will take longer to switch to the active or ON state. <i>Normal power standby</i> Faster switching on; higher power consumption.
Inactivity Standby	Define time period before the receiver goes into standby if no remote control or front panel keys are operated: <i>Off, 4 Hours*, 5 Hours, 6 Hours</i>

Technical Information

This menu displays software version and other technical information.

Tuning

Services	Lists all channels.
Manual scan	Carry out a manual scan for services by setting <i>UHF channel, Frequency, bandwidth, System type</i> (advanced users only)

Factory Reset

Choose this option to restore the default configuration settings or when you need to retune or have moved house and need to perform the installation again.

Note. In addition to removing all your personal settings, this will cancel any scheduled recordings. Existing recordings are not affected and previously saved content will not be deleted.
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6. Getting Help

Updates

Your HDT-610R can be updated in three ways:

- Automatically, over the air via the TV signal.
- Automatically, over your Internet connection.
- Manually: download the update from www.myechoStar.com/support, saving it onto a memory stick and then applying it yourself.

Over the Air Updates

Over the Air (OTA) updates, with new channel and transmission information, are provided by **freeview** from time to time. The HDT-610R receives these automatically. A pop-up message will be displayed on screen when an update is available.

Internet Software Updates

From time to time, EchoStar will issue software updates. When a new version of the HDT-610R software is available, a pop-up message is displayed on screen. Follow the instructions to download and install the update (requires an active Internet connection).

Manual Software Update

You can manually update the HDT-610R by following the steps below:

1. Visit www.myechoStar.com/support to locate the latest software.
2. Copy the update file to an empty USB memory stick.
3. Insert the USB memory stick into either the front or rear USB ports (see page 8). The screen will display a message confirming that the USB memory stick has been detected and shows the version number of the software update.
4. The HDT-610R will reset.
5. The updating process may take up to 5 minutes. When it is complete, the HDT-610R will automatically restart.

FAQs

If you can't find a solution to a problem here, please visit:

www.myechostar.com/support

No lights on HDT-610R; it doesn't switch on

- Check that the mains power adaptor is plugged in and the power socket is switched ON.
- Try a different power socket.
- Check the fuse.

No TV picture

- Check that the HDT-610R is plugged in, switched on and has had sufficient time to boot up.
- Make sure the HDT-610R is not in Standby (you can bring the unit out of standby by pressing the button on the front of the unit).
- Ensure the HDMI cable is firmly connected to the unit and to the TV.
- Ensure that the aerial cable is firmly connected to the unit and is in good condition.
- Ensure that the TV is set up with the HDT-610R and is not configured to receive input from an external device such as a DVD Player.
- Check that the TV is switched on and that the brightness level is set correctly.
- Try changing channel: the selected channel may be off air.

No sound

- Ensure the AV cable (either HDMI or Digital Audio plus adaptor) is firmly connected to the unit and to the TV.
- Check the volume level of your TV or Audio/Theatre System (if connected).
- Check that the HDT-610R, TV or Audio/Theatre System are not set to MUTE.

Poor picture or sound quality

- Ensure that the aerial is of the correct type for digital terrestrial receptions and is installed correctly.
- Picture quality may be affected by damage to the cable from the aerial.
- Check that the aerial input cable is connected properly.
- Try another channel; the problem may be due to a transmission fault.

The remote control doesn't work

- Ensure that you are holding the remote control correctly with the lens at the top of

the control pointing at the HDT-610R.

- Ensure that the IR window on the HDT-610R (see page 8) is not covered by, for example, papers and that the remote is within range.
- Does the LED at the top of the remote control light up when you press any button? Has the battery insulator tab been removed?
- Check that the batteries have charge and are in good condition. Try removing and replacing the batteries making sure they are inserted in the correct orientation (see page 11).
- Replace the batteries with a new set (see page 11).

The remote doesn't control the TV or change the volume

- You need to ensure your remote control is set-up correctly to control your TV. – see page 18. This will be necessary whenever you change the batteries.

The HDT-610R didn't record a programme

- Check that the aerial cable is connected.
- Check that your hard disk has sufficient space for further recordings (see page 39). To make space, delete some old recordings that you have already viewed.
- The unit should tell you if your scheduled recordings use more resources than the product can support – check the scheduled recording (see page 41) and make changes if necessary.
- Did the unit have power when the programme is scheduled to be transmitted? The HDT-610R will wake from standby to record a programme but it must have power to be able to do this.

iPlayer isn't available

- Check that your HDT-610R is connected to your router and that the Ethernet cables are firmly inserted at both ends.
- Check there is a broadband connection available by looking at the network settings (see page 41). Can you access the Internet from other devices?
- Check to make sure you are meeting the system requirements to use iPlayer by visiting the help section at www.bbc.co.uk/iplayer/.
- If you are experiencing issues with connecting and using BBC iPlayer, visit www.myechostar.com/support.

On Demand App doesn't work

- Check that your HDT-610R is connected to your router and that the Ethernet cables are firmly inserted at both ends.
- Check there is a broadband connection available by looking at the network settings (see page 41). Can you access the Internet from other devices?
- Try accessing the BBC iPlayer on your HDT-610R to verify your internet connection.
- Contact your Internet Service Provider if there is a problem.
- If you are experiencing issues with connecting and using the On Demand services, visit www.mychostar.com/support.

No channels found during installation

- Contact your aerial installer if there is no signal and you are satisfied that the connection to the unit is sound.

Contacting Customer Support

For the latest product information, technical support, downloads and updates please visit:




www.mychostar.com/support

or call our Customer Helpline on 0845 123 3003.

7. Remote Control TV Codes

Search the table in this section for your TV manufacturer. Make a note of the control code (or codes) used by the manufacturer. Use the procedure described on page 18 to program your remote control:

If the manufacturer of your TV is not listed, or the specified code does not work use the following procedure to scan through all programmed remote codes.

1. Switch your TV on.
2. Point the remote at the TV. Hold down both the CH+ and VOL- simultaneously (see above) for at least 2 seconds. The blue LED gives two slow flashes to indicate successful entry into setup mode.
3. Press . The blue LED is turned on.
4. Press  repeatedly until the TV switches off.
5. Press . The blue LED gives two slow flashes to indicate that the code has been stored successfully.

If your TV does not turn off then it is not supported in the remote's database.

TV Manufacturers' Control Codes

Manufacturer	Control Code(s)
ACCENT	0301 2551 2791 3601
ACCUPHASE	2791
ACEC	2741
ACTION	0051 0301 2391
ADCOM	2711
ADMIRAL	0051 0301 0721 0981 1131 1571 2571 3661 3831 3881
ADYSON	0051 2391 3911 3921
AEA	2551 2791
AEG	3531 3681
AGASHI	3831 3911 3921
AGEF	2571
AIKO	0301 2551 2751 2791 3601 3831 3891 3911 3921
AIM	2551 2791 3681 3721 3841
AKAI	0051 0301 0671 0741 0851 0871 0991 1001 1491 2371 2391 2551 2751 2791 3331 3541 3601 3681 3711 3721 3831 3881 3891 3901 3911 3921
AKASHI	3601
AKIBA	2551 2791
AKITO	2551 2791
AKURA	0051 0301 0891 2551 2791 3541 3601 3831
ALARON	3911
ALBA	0051 0301 1181 1571 1681 2541 2551 2791 3541 3601 3881 3911
ALBIRAL	1691
ALFA	0051
ALLORGAN	1901 3921
ALLSTAR	0051 2551 2791
AMPLIVISION	1181 3921
AMSTRAD	0301 0981 2551 2791 3601 3831
ANAM	2551 2791 3601 3611
ANAM NATIONAL	2551 2791 3611
ANDERSSON	3531
ANGLO	0301 3601 3831
ANITECH	0051 0301 1111 2391 2551 2581

Manufacturer	Control Code(s)
	2791 3601 3831
ANSONIC	0301 1181 2551 2581 2631 2741 2791 3601 3881
AOC	0051 2391
AR SYSTEM	1741 2551 2791
ARC EN CIEL	1991 2341 2591 2641 2681
ARCAM	2641 3911 3921
ARDEM	2551 2791 3541
ARISTONA	0051 2471 2551 2741 2791
ART TECH	0051
ARTHUR-MARTIN	0771 3881
ASA	1101 1371 1381 1471 2571 3881
ASBERG	0051 1111 1571 2551 2581 2791
ASORA	0301 3601
ASTRA	0301 2551 2791
ASUKA	3831 3911 3921
ATD	3841
ATLANTIC	0051 1901 2551 2791 3911
ATORI	0301 3601
ATORO	0301
AUCHAN	0771 3881
AUDIOSONIC	0051 0301 1181 2551 2591 2631 2791 3331 3541 3601 3831 3921
AUDIOTON	0301 1181 3831 3921
AUDIOVOX	0051
AUDIOWORLD	3841
AUMARK	3811
AUTOVOX	1891 1901 2481 2571 2771 3921
AWA	0301 2411 2531 2541 2551 2631 2791 3601 3681 3831 3911 3921 4141
AXXENT	3601
AXXON	3541
BAIRD	2591 2621 2801 3681 3721 3921
BANG & OLUFSEN	2281 2571
BARCO	3881
BASIC LINE	0051 0061 0301 2551 2631 2791 3601 3881 3921

Manufacturer	Control Code(s)
BASTIDE	3921
BAUER	3601 3831 3841
BAUR	0051 0181 0301 0411 0421 0431 0441 0471 0791 1281 1291 1301 2551 2691 2721 2751 2771 2781 2791 3601 3891
BAZIN	3921
BBK	3151 3161 3171 3181
BEAUMARK	3711
BEC	0051
BECRESE	0051 2391
BEKO	0051 1181 1621 2021 2551 2791 3331 3541 3681
BELL & HOWELL	0051
BELSON	3851
BENCHMARK- BEAUMARK	0051 0301 2391
BEON	0051 1571 2551 2791
BEST	1181
BESTAR	0051 0801 1181 2551 2631 2791
BESTAR-DAEWOO	2631
BIGSTON	0301
BINATONE	3921
BLACK DIAMOND	2791 3531
BLACK PANTHER	2581
BLAUPUNKT	1231 1241 1251 1271 1281 1301 1321 1341 2371 2441 2451 2751 3701
BLAUPUNLET	2781
BLUE SKY	0051 2551 2791 3331 3541 3851
BONDSTEC	2481 3601 3921
BOSCH	2441
BPL	2551 2791
BRANDT	1991 2591 2601 2611 2621 2641 2661 2681 2711
BRANDT ELECTRONIQUE	1801 1851 1991 2341 2601 2611 2681
BRENDSTAR	0301
BRINKMANN	0051 1571 2551 2791
BRIONVEGA	0051 0981 2551 2571 2791
BRIORRYEGA	0051

Manufacturer	Control Code(s)
BRITANNIA	3911 3921
BROCKWOOD	2391
BROKSONIC	2391
BROTHER	3831
BRUNS	2571
BSR	0621 0751 3881 3891
BUSH	0051 0621 0871 1681 2541 2551 2631 2771 2791 3541 3601 3721 3831 3841 3881 3891 3921
CAMERON	3021 3031 3061
CAMPLE	2391
CANDLE	2391
CAPEHART	0051 2391
CAPSONIC	3831
CARAD	2551 2791
CARENA	2551 2791
CARREFOUR	0051 2541 2551 2791
CARVER	0051 3701
CASCADE	2551 2791 3601
CASIO	2551 2771 2791 3881
CATHAY	0051 2551 2791
CCE	2551 2791 3921
CENTURION	0051 2551 2791
CENTURY	2201 2571 2761
CGE	0301 0691 0871 1111 1181 1571 2201 2461 2641 3881
CGM	0301
CIE	0301
CIMLINE	0301 3601
CIRCUIT CITY	2391
CITIZEN	0051 2391 3811
CITY	0301 3601
CLARIVOX	2171 2551 2581 2791
CLATRONIC	0301 1111 1181 2191 2201 2551 2581 2791 3531 3541 3601 3681 3831 3921
CMS	3911
CMS HIGHTEC	3921
COLORTYME	0051

Manufacturer	Control Code(s)
COMPUTRON	0301
CONCORDE	0301 3601
CONDOR	0051 0301 1181 1571 2551 2581 2791 3601 3831 3881 3911
CONIC	0051 2391
CONRAD	2551 2791
CONTEC	0301 2531 2541 2551 2791 3601 3831 3911
CONTINENTAL EDISON	0331 1801 1991 2341 2601 2641 2681
CORONADO	2391
COSMEL	0301 2551 2791 3601
CRAIG	0051
CROSLEY	0051 0701 1111 2201 2571 3881
CROWN	0051 0301 1111 1181 2391 2551 2791 3331 3541 3601 3681 3691 3721
CRYSTAL	0051
CS ELECTRONICS	3911
CTC CLATRONIC	1571
CURTIS MATHES	0051 2391 3661 3811
DAEWOO	0051 0271 0281 0291 0301 1751 2391 2551 2631 2791 3541 3601 3841 3911 3921
DAICHI	0301
DAINICHI	3911
DANSAI	2391 2541 2551 2791 3601 3721 3831 3911 3921
DANTAX	1181 3331 3541 3681
DATSURA	3721
DAWA	0051 2551 2791 3601
DAYTEK	3831 3841
DAYTRON	0301 2391 2551 2631 2791 3601
DE GRAAF	3721 3881 3901
DECCA	0051 2141 2551 2791 3921
DEITRON	2551 2631 2791
DENKO	3831
DENVER	0301 2551 2791 3681 3861
DER	2801
DESMET	0051 0301 2551 2571 2791 3601
DIAMANT	2551 2791

Manufacturer	Control Code(s)
DIAMOND	0301 3601 3831 3841 3911
DIGILINE	2551 2791
DIGILOGIC	3951
DIGITOR	2551 2791 3891
DIK	2551 2791
DIXI	0051 0301 2551 2571 2791 3601 3921
DL	3861
DORIC	2771
DSE	2871 2881 2891 2901 2911 2921
DTS	0301 3601
DUAL	0051 0051 0301 0981 1161 2491 2551 2621 2641 2771 2791 3881 3921
DUMONT	1571 2391 2571 2581 3921
DUNAI	3881
DUX	2551 2741 2791
D-VISION	2551 2791
DYNAMIC	0301
DYNATECH	2391
DYNATRON	2551 2741 2791
E:MAX	3681
ECCO	3841
EDISON	2591
ELBE	0711 0981 1151 1181 2171 2551 2751 2761 2791 3881 3891 3921
ELBIT	0051
ELCIT	2571 2581 3881
ELECS	0051
ELECTRATUNE	2391
ELECTRO TECH	0301
ELECTROHOME	2391
ELEKTRONIKA	0051
ELEKTA	0301 2551 2791 3601 3831
ELEKTRONIKA	0051
ELENBERG	3001 3011 3051
ELG	2551 2791
ELIN	0051 0301 2551 2771 2791 3601 3881 3891 3901 3911

Manufacturer	Control Code(s)
ELITE	0051 2391 2551 2791
ELMAN	2021 2581
ELTA	0301 0801 3601 3831 3911
EMERSON	1181 2391 2551 2571 2791 3541 3711 3881 3891
ENERGY SISTEM	2821 2831
ERRES	0051 2471 2551 2741 2791
ESC	2551 2791 3921
ESTELE	3881
ETRON	0301 0861 2551 2791 3591 3601 3881
EUROFEEL	3831 3921
EUROMAN	1181 2551 2791 3831 3911 3921
EUROMANN	0051
EUROPA	2551 2791
EUROPHON	0051 2151 2551 2581 2791 3881 3911 3921
EXCEL	2551 2791
EXPERT	0771 1901 2011 3881
EXPERT (F)	0771 2011
EXQUISIT	2551 2791
Eye TV	4151
FAIRTEC	3851
FAMILY LIFE	2551 2791
FENNER	0301 2631 3601
FERGUSON	1591 1841 1851 1921 1931 1941 1951 2021 2061 2131 2171 2411 2551 2591 2601 2611 2621 2661 2701 2711 2761 2791 2801 3691 3891 3901 4161
FIDELIS	0301
FIDELITY	0841 2551 2791 2801 3831 3881 3891 3911
FILSAI	0301 3921
FINLANDIA	1051 1471 2601 2621 3721 3881 3891 3901
FINLUX	0051 0301 0621 1081 1101 1371 1381 1441 1451 1461 1471 1501 1521 1571 1821 2141 2551 2571 2581 2791 3331 3541 3681 3881 3921
FIRST LINE	0051 0301 2551 2581 2631 2761 2771 2791
FIRSTLINE	3531 3541 3601 3721 3851 3881

Manufacturer	Control Code(s)
	3891 3911 3921
FISHER	0261 1181 2221 2311 2541 2571 2771 3721 3881 3891 3921
FLINT	0051 2551 2791 3831
FNR	2581
FORGESTONE	2801
FORMENTI	0051 2551 2571 2791 3881 3911
FORMENTI-PHOENIX	3911
FORTRESS	2391 2571 3661
FRABA	1181 2551 2791
FRIAC	1181 2551 2581 2791 3601
FRONTECH	0301 2401 2771 3601 3831 3881 3921
FUBA	1641
FUJITSU	0751 1901 2391 2551 2581 2791 3601 3651 3881 3891 3921
FUJITSU GENERAL	0751 0981 1901 3601 3881 3921
FUJITSU SIEMENS	3531
FUNAI	0301 2391 3831
FUTRONIC	3831 3841
FUTURE	2551 2791
GALAXI	2551 2581 2791 3881 3891
GALAXIS	1181 1571 2551 2581 2791
GALAXY	1181 1571
GALERIA	0301 3601
GBC	0301 0701 0721 2161 2631 3601 3881
GE	2591 2601 2611 2621 2701 3711
GEANT CASINO	3881
GEANT CASIONO	0771
GEC	0661 2551 2561 2771 2791 3881 3891 3921
GELOSO	0301 2201 2631 3601 3881
GEMSOUND	0301
GENERAL	0301 2591 2601 2661
GENERAL ELECTRIC	2601 2621
GENERAL TECHNIC	0301 3601
GENESIS	3601

Manufacturer	Control Code(s)
GENEXXA	0051 2551 2791 3601 3881
GIANT	3601 3921
GITEM	0051
GM	0301
GMG	0301 1571
GOLDHAND	0301 3911
GOLDSTAR	0051 0301 0621 1131 1181 1241 1631 2391 2481 2551 2591 2791 3331 3541 3591 3601 3681 3711 3881 3891 3911 3921
GOODMANS	0051 0301 1681 1951 2321 2541 2551 2611 2621 2631 2701 2791 3541 3601 3831 3861 3921
GORENJE	1181
GPM	0301
GRADIENTE	2551 2791 3691 3701
GRADIN	0051 0301
GRAETZ	0661 0731 0861 1051 2551 2791 3531 3541 3881 3891
GRANADA	0051 0361 0641 0931 0951 1511 1951 2411 2541 2551 2611 2621 2701 2741 2791 3721 3881 3901 3921
GRANDIN	0771 2011 2551 2631 2791 3251 3261 3271 3281 3291 3301 3311 3321 3331 3341 3351 3361 3371 3381 3391 3401 3411 3421 3431 3441 3451 3461 3471 3481 3491 3501 3511 3521 3541 3551 3561 3571 3601 3851 3881
GRENADIER	0301
GRONIC	2581 3881 3921
GRUNDIG	0331 1181 1211 1221 1231 1241 1251 1261 1271 1281 1301 1311 1321 1331 1341 1351 2541 2551 2751 2781 2791 3601 3711 3861 3961
GRUNKEL	3531
GTT	0301 1571
HAIER	3831 3841
HALIFAX	3831 3911 3921
HALLMARK	2391
HAMMERSTEIN	3811 3831
HAMPTON	3911 3921
HANSEATIC	0051 0301 1161 1181 2551 2571 2771 2791 3541 3601 3881 3891 3921

Manufacturer	Control Code(s)
HANTAREX	0051 0301 2161 2551 2581 2791 3601
HANTOR	2551 2791
HARLEY DAVIDSON	2391 2561
HARRAD	2391
HARVARD	2391
HARWOOD	2551 2791 3601
HAUPPAUGE	2551 2791
HCM	0301 2551 2791 3601 3831 3921
HEATHKIT	0051
HEDZON	2551 2791
HEMA	3601 3921
HEMMERMANN	2771
HIFIVOX	1991 2341 2591 2641 2681
HIGASHI	3911
HIGHLINE	2551 2791 3831
HILINE	0301
HINARI	0051 0301 0861 2321 2541 2551 2791 3601 3721 3831 3881
HISAWA	3541
HISENSE	3721 3841
HIT	2571
HITACHI	0051 0631 0661 0671 0781 0791 0921 0991 1051 1501 1791 1991 2391 2411 2521 2541 2551 2561 2591 2621 2771 2791 3711 3881 3891 3901 3921
HITACHI FUJIAN	2411
HITSU	3601
HMV	2571
HOHER	3531 3541
HOME ELECTRONICS	3681
HORIZONT	0051 3091 3101 3131 3141
HORNYPHON	0051
HORNYPHONE	2551 2741 2791
HUANYU	2631 3911
HUMAX	3971 3981 3991 4001 4011 4021 4031
HUSPI ELEKTRONIK	1571
HYGASHI	3911 3921

Manufacturer	Control Code(s)
HYPER	0301 2481 3601 3911 3921
HYPERSONIC	3891
HYPSON	0051 0301 2551 2761 2791 3331 3541 3831 3921
HYUNDAI	3841
IBERIA	2551 2791
ICE	0051 0301 2551 2791 3601 3831 3911 3921
ICES	3911
ICOS	2741
ICT	2551 2791
IMA	2391
IMPERIAL	0051 0611 0691 0871 1111 1181 1571 2201 2551 2771 2791 3881 3891
INDIANA	0051 2551 2791
INFINITY	0051
INGELEN	1621 3541 3881 3891
INGERSOLL	0301 3601
INNO HIT	0051 0301 1131 2151 2551 2581 2791 3531 3601 3921
INNOHIT	0051 0301 1131
INNOVATION	0051 2551 2791
INTERACTIVE	1181 2551 2571 2591 2681 2741 2791 3881 3891
INTERBUY	0301 2551 2791 3601 3831
INTERDISCOUNT	0051
INTERFUNK	0051 0661 0741 0861 0901 1181 1571 2231 2241 2441 2451 2471 2551 2571 2591 2681 2741 2771 2791 3881 3891
INTERNAL	2551 2631 2791
INTERNATIONAL	3911
INTERVISION	0051 0801 1181 2551 2581 2791 3601 3831 3881 3921
IRRADIO	0051 0301 1081 1131 2481 2551 2791 3601
IST	0051
ISUKAI	0051 2551 2791
ITC	3921
ITL	0301
ITS	0301 2551 2791 3601 3831 3911

Manufacturer	Control Code(s)
ITT	0721 0911 2771 2801 3721 3881 3891 3901
ITT	NOKIA 2771 3681 3721 3881 3891 3901
ITV	2551 2631 2791 3831
JBL	0051
JEAN	2541
JETPOINT	0051
JINLIPIU	0301
JMB	2551 2631 2791
JOCEL	0091 0221 0231 0341
JULIBEE	2791
JUMBOTRONIC	0051
JVC	0051 0491 0501 0511 0521 0531 0541 0551 2541 2801 3611 3661 3681 3691
KAISER	0051
KAISUI	0051 0301 2551 2791 3601 3911 3921
KAMP	3911
KAPSCH	0661 1901 3881 3891
KARCHER	0051 0301 1181 2551 2581 2791 3541 3681 3831 3881
KATHREIN	2551 2791
KAWASHO	3911
KB ARISTOCRAT	3881
KENDO	0051 0301 0711 0981 1181 1901 2551 2581 2791 3881
KENNEDY	0981 1901 3881
KENWOOD	2391
KIC	3921
KINGSLEY	3911
KIOTA	0301 3591
KITION	2791
KITON	2551
KLH	2391
KNEISSEL	1161 1181 2551 2631 2761 2791
KOBIC	0301
KOLSTER	0051 2551 2581 2771 2791
KONICHI	0301 3601

Manufacturer	Control Code(s)
KÖNIG	1981
KONKA	2551 2791 2971 2981 2991 3541 3681 3861
KORPEL	0051 2551 2791
KORTING	1181 2211 2241 2571
KÖRTING	2211 2241
KOSMOS	2551 2791
KOTRON	3831
KOYODA	3601
KRAKING	2761
KRIESLER	2741
KTV	2391 3921
KUASHO	0051 2391
KUBA	2771 3881
KUBA ELECTRONIC	2771 3881
KYOSHU	3831
KYOTO	3881 3911 3921
L&S ELECTRONIC	3541
LASAT	1181
LAVIS	3881
LEADER	0301 3601
LECSON	2551 2791
LEGEND	0301 3601
LENCO	0051 0301 0321 2551 2631 2791 3601 3861 3881
LENOIR	0301 3601
LEVIS AUSTRIA	2551 2791
LEYCO	0051 2551 2791 3831
LG	1181 2551 2591 2791 2931 2941 2951 2961 3191 3331 3541 3591 3601 3681 3711 3731 3841 3851 3881 3891 3911 3921
LIESENK & TTER	2551 2791
LIESENKOTTER	0051 2551 2741 2791
LIESENKÖTTER	0051 2441
LIFE	0301
LIFETEC	0051 0301 2551 2631 2791 3541 3601 3831
LINITRON	2391
LLOYD	2391

Manufacturer	Control Code(s)
LLOYD'S	0301 3591 3601
LOEWE	0051 1181 2251 2551 2571 2791
LOGIK	2531 2551 2791 2801 3591 3601 3811 3831 3841
LÖGIK	0251 2351
LOGIX	0051
LUMA	0051 0301 0721 0981 1901 2551 2631 2791 3601 3881
LUMATRON	2551 2791 3831 3881 3891 3921
LUX MAY	0051 2551 2791 3601
LUXOR	0631 0671 0741 0781 0791 0811 0901 0991 1001 1031 1041 1051 1131 1371 1441 1471 1501 1521 2771 3531 3721 3881 3891 3901 3921
LUXOR SALORA	2001
LUXOR/SKANTIC	0991
LXI	0051 3711
M ELECTRONIC	0301 1501
M ELECTRONICS	0051 0301 1471 2021
MACYS	2391
MADISON	2551 2791
MAGNADYNE	0051 0301 0701 1571 2151 2191 2201 2571 2581 3881
MAGNAFON	2151 2581 3911
MAGNASONIC	0051 0301 2391
MAGNAVOX	0051 2541 2551 2791
MAGNUM	0171 2551 2791 3331 3541
MANDOR	3831
MANESTH	0051 2551 2791 3831 3881 3921
MANHATTAN	2551 2791 3881
MARANTZ	0051 2551 2791
MARELLI	2571
MARK	0051 2551 2631 2791 3331 3541 3601 3911 3921
MASUDA	2551 2791 3601 3831 3921
MATSUI	0051 0301 0311 0331 0611 1241 1731 2531 2541 2551 2611 2751 2771 2791 3541 3601 3721 3881 3921
MATSUSHITA	3611
MATSUVIAMA	3861

Manufacturer	Control Code(s)
MAVA	2391
MAXAM	0301 3831
MAXDORF	3831 3841
MAXELL	0301
MCE	0301 3601
MCMICHAEL	2561
MEDIATOR	0051 2471 2551 2741 2791
MEDION	0051 0201 2551 2791 3541 3841
MEGATRON	3711
MELECTRONIC	1411 1541 2551 2591 2601 2621 2631 2751 2771 2791 3541 3601 3881 3891 3911 3921
MEMOREX	0301 3601 3611 3711 3811
MEMPHIS	0301 3601
MERCURY	0301 2551 2791 3591 3601 3811 3831 3841
MERRITT	3881 3891 3901
METZ	1191 1201 1241 1281 1301 1331 2231 2551 2571 2751 2781 2791 3531 3861
MGA	2551 2791 3711
MICROMAXX	2551 2791
MICROTEK	3831 3841
MIDLAND	2391
MIKOMI	3531
MINATO	2551 2791
MINERVA	1241 1301 2411 2751 2781
MINOKA	0051 2551 2791
MISTRAL ELECTRONIC	2801
MITSUBISHI	0051 0301 2301 2311 2411 2421 2511 2541 2551 2571 2791 2801 3661 3711 3721
MITSURU GENERAL	3881
MIVAR	1131 1151 1161 1181 1611 2161 2181 3911 3921
MONACO	3601
MORGAN'S	2551 2791
MOTOROLA	0051 3661
MTC	1181 2391 2771 3581 3811 3881 3891 3911
MTLOGIC	3541

Manufacturer	Control Code(s)
MULTIBROADCAST	2801
MULTISTANDARD	2581
MULTITEC	2551 2791
MULTITECH	0051 0301 1111 1181 2391 2551 2581 2771 2791 3601 3831 3911 3921
MURPHY	3881 3911
MUSIKLAND	2551 2791
MYCOM	3711
MYRYAD	2551 2791
NAD	3711 3881 3891
NAIKO	2551 2791 3681
NAKIMURA	2551 2631 2791
NAMSUNC	0301
NAONIS	0721 3881
NATIONAL	0051 0351
NEC	0301 2531 2541 2551 2631 2791 3601 3691 3701 3861 3921
NECKERMANN	0051 0301 0431 0441 0501 0791 0921 0981 1181 1241 1261 1281 1301 1331 2151 2441 2451 2551 2571 2691 2721 2751 2771 2781 2791 3881 3921
NEI	0051 1721 2551 2791 3881
NETSAT	2551 2791
NEUFUNK	2551 2791 3541 3601
NEW TECH	3601 3921
NEWTECH	0051 0301 2551 2621 2791
NICAMAGIC	3911
NIKKAI	0051 2391 2541 2551 2791 3601 3831 3911 3921
NIKKEI	3541
NIKKO	1711 3711
NOBLEX	0261 0301
NOBLIKO	1081 1111 2581 3911
NOGAMATIC	1991 2341 2591 2641 2681
NOKIA	0241 0301 0631 0661 0671 0721 0731 0741 0811 0831 0861 0901 0931 0991 1001 1041 1051 1391 1401 1421 1431 1481 1501 1511 1521 1541 1571 1821 2591 2631 2771 3681 3721 3881 3891 3901
NOKIA AKAI	0851

Manufacturer	Control Code(s)
NONAME	0051
NORDIC	3921
NORDMENDE	1791 1811 1851 1861 1871 1921 1961 1991 2021 2051 2341 2551 2591 2601 2611 2621 2641 2661 2681 2701 2791 3541 3881
NORFOLK	3881
NORMEREL	2551 2791
NOVABEAM	0051
NOVAK	2741
NOVATRONIC	0051 0301 2551 2631 2791
NURNBERG	3881 3891
NU-TEC	3841
O GENERAL	0301
OCEANIC	0771 0811 0991 1051 1501 1521 2011 3721 3881 3891 3901
ODEON	3831
OKANO	0301 1181 2551 2791 3601 3831
OLYMPIC	0301
OMEGA	3831 3841
ONCEAS	0301
ONWA	2581
OPERA	0051 2551 2791
OPTIMUS	3611
OPTONICA	3661
ORBIT	0051 2551 2791
ORIENT	0301
ORION	0051 0121 0131 0141 0151 0301 0961 0971 2111 2391 2531 2551 2581 2791 3541 3601 3831
ORLINE	2551 2791
ORMOND	2551 2791
OSAKI	2551 2631 2791 3831 3921
OSIO	2551 2791
OSUME	2541 2551 2791
OTF	0301
OTTO VERSAND	0051 0301 0411 0421 0431 0441 0451 0621 0791 0801 1261 1271 1281 1331 2021 2371 2481 2491 2541 2551 2591 2621 2691 2721 2751 2771 2781 2791 3601 3661 3891 3921

Manufacturer	Control Code(s)
OTTO-VERSAND	0051 0301 0441 0471 0561 0801 1241 1261 1301 1631 2021 2111 2371
PACIFIC	0091 0101 2551 2791 3541
PAEL	1081 3911
PALLADIUM	0051 1181 1281 2551 2571 2691 2721 2751 2771 2781 2791 3541 3881 3921
PALSONIC	2551 2791 3591 3831 3841 3921
PANAMA	0301 2551 2791 3601 3831 3911 3921
PANASHIBA	0301 3591
PANASONIC	0051 0351 0361 0371 0381 0391 1191 2361 2371 2411 2551 2791 3221 3591 3611 3621 3631 3641 3651 3711 3811 3881 3891 3901 4041 4051 4061
PANAVISION	2551 2791
PANAVOX	0301
PANORAMA	0301
PATHE CINEMA	1161 1181 2761 2771 3881 3911
PATHE MARCONI	1991 2341 2591 2641 2681
PAUSA	0301 3601
PCE/PEC	2391
PENNEY	2391
PERDIO	2551 2791 3881 3911
PERFEKT	0051 2551 2791
PHILCO	0051 0301 0691 0701 1111 1181 1571 2201 2551 2571 2791 3881
PHILEX	2801 3881
PHILHARMONIC	3921
PHILIPS	2551 2561 2571 2621 2631 2651 2741 2751 2761 2781 2791 2801 2811 3601 3891 3931
PHILIPS (F)	0051 2471
PHOCUS	3541
PHOENIX	0051 1181 2551 2571 2791 3881 3911
PHONOLA	0051 2471 2551 2571 2741 2791 2801 3911
PILOT	2551 2791
PIONEER	0051 0761 1181 1791 2551 2591 2601 2621 2651 2791 3201 3701 3871 3881 3891 4071 4081
PIONIER	1181

Manufacturer	Control Code(s)
PLANTRON	0051 0301 2551 2791 3601 3831
PLAYSONIC	3331 3541 3921
POLAR	3081
POLICOM	2571 2581 2591 2681 2761 3881 3891
POPPY	0301 3601
PORTLAND	2391 2631
POWERPOINT	3841
PRANDONI PRINCE	0721 1081
PRANDONI-PRINCE	2151 3891
PRECISION	3921
PREMIER	3601 3831
PRIMA	0051 0301 2391 3601 3831
PRINCESS	0301 3841
PRINZ	2771 3891
PROELCO	0051
PROFEX	0301 0801 1111 3601 3881 3891
PROFI	3601
PROFITRONIC	0051 2551 2581 2791
PROLINE	2551 2711 2741 2791
PROSONIC	1181 2551 2631 2791 3541 3911 3921
PROTEC	0051 0301
PROTECH	2551 2581 2771 3601 3831 3881 3921
PROTECT	2791
PROTON	0301 2391 3711
PROVISION	2551 2791 3541
PULSER	0051 0301 2391
PVISION	3851
PYE	0051 2551 2571 2631 2741 2771 2781 2791
PYMI	0301 3601
QUASAR	3601 3611
QUELLE	0051 0301 0411 0421 0431 0441 0451 0471 0501 0621 0871 0981 0991 1081 1101 1131 1241 1271 1281 1301 1331 1371 1381 1451 1471 1521 1661 1671 1901 2311 2371 2391 2441 2451 2461 2481 2531 2541 2551 2591 2681 2691 2721 2751 2771 2781 2791 3601 3831 3891 3921

Manufacturer	Control Code(s)
QUESTA	2541
R LINE	0051 2551 2791
RADIALVA	2551 2591 2601 2791 3881
RADIO SHACK	2391 2551 2791
RADIOLA	0051 2471 2551 2741 2791 3921
RADIOMARELLI	2151 2551 2571 2791
RADIOSHACK	3711
RADIOSTONE	2791
RADIOTONE	0051 0301 1181 2551 3601 3831
RADUGA	3141
RANK ARENA	2541
RANK/BUSH/MURPHY	1141
RCA	2611 2621 2701 2711 3661 3941
REALISTIC	3711
RECOR	2551 2791
RECORD	0051 3141
RECTILIGNE	2551 2791
REDIFFUSION	2541 3891 3901
REDSTAR	2551 2791
REFLEX	2551 2791
REGENTE	0301
REOC	3541
REVOX	0051 1181 2551 2791
REVOX/STUDER	0051
REX	0711 0751 0981 1161 1901 2201 3831 3881
RFT	1161 1181 2551 2571 2791 3831
RHAPSODY	3911
RICOH	2551 2791
RINEX	3831 3841
R-LINE	3881
RMB	2391
ROADSTAR	0301 2551 2791 3541 3601 3831 4171
ROBOTRON	2571
RODEX	2551 2791
ROSITA	0301

Manufacturer	Control Code(s)
ROWA	0301 3601 3831 3841 3861 3911 3921
ROYAL	0301 3681
ROYAL LUX	1181 2611
RUBIN	3071 3101 3141
RUKOPIR	2551 2791
SABA	0661 0861 1791 1801 1811 1851 1991 2021 2031 2041 2151 2331 2341 2571 2591 2601 2611 2621 2641 2661 2681 2701 2711 3541 3611 3881 3891 3901
SACCS	2761
SADKO	3141
SAGEM	3741
SAISHO	0051 2531 3601 3831 3881 3921
SAIVOD	2551 2791 3531
SAKAI	3881
SAKURA	0301
SALORA	0631 0641 0741 0791 0811 0921 0991 1001 1041 1051 1131 1391 1471 1491 1501 1521 1541 1821 2771 3721 3881 3891 3901
SALSA	2611
SAMBERS	1081 1111 1131 2151 2581
SAMPO	2391
SAMSUNG	0051 0161 0181 0261 0301 1131 1181 1661 2391 2401 2551 2791 3211 3601 3661 3711 3721 3741 3751 3761 3771 3781 3791 3811 3821 3831 3861 3881 3911 3921 4091 4101 4111 4121
SAMSUX	2391
SANDRA	3911 3921
SANELA	2761
SANKY	2391
SANSUI	0051 0301 2391 2551 2791
SANTON	3601
SANYO	0301 1161 1181 1671 2311 2411 2531 2541 2551 2791 3601 3701 3721 3881 3911 3921
SAVE	2551 2791
SBR	0051 2471 2551 2561 2741 2791 2801
SCHAUB LORENZ	0991 1051 2631 2771 3541 3681 3851 3891 3901

Manufacturer	Control Code(s)
SCHNEIDER	0051 0161 0171 0301 0861 0941 0981 1161 2471 2481 2491 2551 2621 2741 2771 2791 3541 3881 3891 3921
SCHNEIDER (F)	2471
SCOTLAND	3881
SCOTT	2391 3711 4181
SEARS	3711
SEG	0301 0471 1111 2391 2541 2551 2581 2771 2791 3531 3541 3601 3831 3881 3911 3921
SEI	2551 2571 2581 2691 2721 2771 2791 3881
SEI-SINUDYNE	0051 0701 2551 2571 2581 2691 2721 2791
SELECO	0711 0721 0751 0981 1011 1161 1761 1881 1891 1901 2001 2311 2541 3831 3881
SEMUA	2391
SENCORA	0301 3601
SENTRA	0861 2771 3601
SERINO	3661 3911
SHARP	0561 0571 0581 0601 2311 2391 2541 2801 2841 3231 3531 3661 3671 3691 3871 4191
SHINTOSHI	2551 2791
SHIVAKI	0051 2551 2631 2791 3711
SHOW	0301 3601 3831 3841
SIAREM	0701 2161 2571 2581 3881
SICATEL	1181 1551
SICATEL-FRANCE-S	1551
SIEMENS	0051 1241 1251 1261 1271 1281 1291 1301 1331 2291 2391 2441 2451 2551 2751 2781 2791 3891
SIERA	2551 2741 2791 3861
SIERRA	0051 1181 2471
SILMA	0051
SILVA	0301 2551 2791 3891 3911
SILVER	2541 2551 2791 3331 3881 3891
SINGER	0051 0301 0941 2011 2191 2201 2551 2571 2581 2611 2791 3601 3881
SINOTEC	3681 3841
SINUDYNE	0051 0471 0721 0941 0981 2111 2551 2571 2581 2691 2721 2771

Manufacturer	Control Code(s)
	2791 3681 3881 3891
SKY	2551 2791 3711
SMARAGD	0331
SNYDER	0051
SOKOL	3111 3141
SOLAVOX	0861 2551 2791 3881 3891 3901
SONIKO	2551 2791
SONITRON	1181 3721 3921
SONNECLAIR	2551 2791
SONOKO	0051 0301 2551 2791 3601 3831 3921
SONOLOR	0771 0811 0991 2011 2691 2721 3721 3881 3891 3901
SONTEC	0051 1181 2551 2791 3601
SONY	2531 2541 2551 2581 2691 2721 2731 2791 3661 3701 3801
SOUND & VISION	2551 2581 2631 2791
SOUNDESIGN	2391 3711
SOUNDMASTER	0301
SOUNDWAVE	2551 2791 3331
SPECTRA	3601
SPECTRICIAN	0051 2391
SSANGYONG	3601
STAKSONIC	3601
STANDARD	0301 2551 2631 2791 3601 3921
STARLITE	0301 2551 2791 3601 3831 3881
STARLUX	0301
STERN	0711 0751 0981 1161 1901 3831 3881
STRATO	2551 2791 3601 3831
STRONG	3531
STYLANDIA	3921
SUNIC LINE	2551 2791
SUNKAI	2551 2791
SUNSTAR	0301 2551 2791 3601 3831
SUNWOOD	0051 0301 2551 2791 3601
SUPERLA	3911 3921
SUPERSONIC	3601 3721 3831 3841
SUPERTEC	0301

Manufacturer	Control Code(s)
SUPERTECH	0301 0871 2551 2791 3601 3911
SUPERVISION	3831 3841
SUPRA	0301 2631 3601 3711
SUPREMACY	2391
SUSUMU	2601 2611
SUTRON	0301 3601
SVA	3831 3841
SVASA	3721 3831 3841
SYC LINE	0301
SYDNEY	3911 3921
SYLVANIA	0051
SYMPHONIC	2391
SYSLINE	2551 2791
SYTONG	3911
TANDBERG	0981 1191 2591 3881 3891
TANDY	3661 3881 3921
TASHIKO	2321 2541 2561 3701 3881 3911 3921
TATUNG	0051 0191 2531 2551 2791 3851 3921
TCM	3541
TEAC	2551 2771 2791 3541 3601 3701 3711 3831 3841 3921
TEAK	0301
TEC	0301 0751 0871 0981 1721 2551 2611 2661 2791 3601 3881 3891 3921
TECH LINE	2551 2791 3531
TECHNICS	0051 0351 3611
TECHNIKA	4201
TECHNILAND	0051
TECHNISAT	1771 2551 2791 3881
TECHNISSON	3541
TECHNOL	0301
TECHNOL ACE	3831 3841 3911
TECHWOOD	3481 3531 3531
TECNISON	0301
TEDELEX	0301 2551 2791 3601 3681 3721 3841 3861 3921
TEIRON	3601

Manufacturer	Control Code(s)
TEK	3601 3841
TEKNANT	0051 0301
TEKNIKA	2391 3811
TEKON	0301
TELEAVIA	1991 2121 2341 2591 2601 2621 2641 2671 2681
TELECOR	2551 2791 3881 3921
TELEFAC	0301
TELEFUNKEN	1701 1851 1911 1951 1961 1971 2021 2041 2091 2431 2461 2551 2591 2601 2611 2621 2641 2661 2681 2711 2791 3541 3841 3861
TELEFUSION	2551 2791
TELEGAZI	2551 2791 3831 3881
TELEMEISTER	2551 2791
TELEOPTA	0301
TELESONIC	2551 2791
TELESTAR	0301 2551 2791 3601
TELETECH	0301 2551 2791 3601
TELETON	0751 1901 2541 2771 3881 3921
TELEVIDEON	3881 3911
TELEVIEW	2551 2791
TELEVISIO	2011
TELEXA	2581
TEMPEST	0301 2551 2791 3601 3831
TENNESSEE	2551 2791
TENSAI	0051 0301 0621 1631 2551 2631 2791 3331 3601 3881 3921
TENSON	0301 3601
TESLA	0051
TESLA ORAVA	0051
TEVION	0051 2551 2791 3541
TEXTET	2631 3601 3911 3921
THOMAS	0051 0301 2391
THOMSON	2551 2591 2601 2611 2621 2641 2661 2671 2681 2701 2711 2771 2791 3041 3911 3941
THORN	0041 0051 0251 0741 0861 0921 1081 1591 1971 2131 2171 2311 2351 2411 2471 2551 2591 2611 2621 2631 2691 2721 2761 2791 2801 3891










Manufacturer	Control Code(s)
THORN-FERGUSON	0051 0251 0981 1591 2021 2131 2171 2351 2411 2591 2611 2761 2801 3891
TMK	3711
TOBO	0301
TOKAI	0051 2551 2631 2791 3601 3881 3921
TOKYO	3911
TONGTEL	3861
TOP SHOW	3601 3831 3841
TOSHIBA	0001 0011 0021 0031 0041 1141 2541 2581 2591 2671 2751 3241 3531 3541 3601 3611 3741 3811 3841 3921
TOSONIC	2391
TOTEVISION	2391
TOWADA	2581 2771 3921
TOYODA	3601 3831
TRAKTON	3601 3831 3921
TRANS CONTINENS	2551 2791
TRANS- CONTINENTS	3921
TRANSONIC	2551 2791 3601 3831 3841 3861
TRANSTEC	3911
TREVI	0301
TRIAD	0051 2551 2791 3601
TRIDENT	3921
TRILUX	0051
TRISTAR	2801 3831
TRIUMPH	2551 2791
TRIVISION	0301
TVTEXT 95	2791
UHER	0051 1181 1901 2551 2631 2791
ULTRAFOX	2201
ULTRAVOX	0701 2191 2201 2551 2571 2581 2631 2791 3881 3911
UMA	0051
UNIC LINE	2551 2771 2791
UNIMOR	0051
UNITED	2551 2791 3331 3541 3861
UNIVERSAL	3541

Manufacturer	Control Code(s)
UNIVERSUM	0051 0301 1181 1281 1411 1471 1541 1681 1901 2441 2531 2541 2551 2591 2681 2691 2721 2771 2781 2791 3531 3601 3701 3741 3831 3881 3891 3921
UNIVOX	2551 2571 2761 2791 3881
URANYA	0301
UTAX	3881
V7 VIDEOSEVEN	3711
VANGUARD	0301
VECO	0301
VESTEL	0051 0061 1681 2551 2791 3531 3881 3921
VEXA	0051 0301 2551 2791 3601
VICTOR	3691
VIDEO SYSTEM	0051 2551 2791
VIDEOLOGIC	3911
VIDEOLOGIQUE	3911 3921
VIDEOTECHNIC	2631 3911 3921
VIDEOTON	0631 0651 0961 1571 1791 2081 2121 3881
VIDIKRON	2581
VIDION	0301
VIDTECH	2541 3711
VISIOLA	3911
VISION	0301 2551 2791 3831 3921
VISON	0051
VISTAR	3891
VITYAZ	3141
VIZIO	4131
VORTEC	0051 2551 2791
VOXSON	0051 0721 2551 2571 2791 3711 3881




















Manufacturer	Control Code(s)
WALTHAM	0631 0961 2121 2551 2591 2601 2671 2791 3881 3921
WARDS	0051
WATSON	0051 0301 2551 2791 3601 3881
WATT RADIO	0701 1571 2581 2771 3881 3911
WEGA	2221 2541 2551 2571 2791
WEGAVOX	0051 0301 1571 2551 2791 3601
WELLTECH	3541
WELTBlick	0051 2551 2791 3921
WESTON	2551 2791
WHARFEDALE	0051 2551 2791 3841 4211
WHITE WESTINGHOUSE	0051 1571 2551 2791 3911
WINSTON	0051 0301
WINTEL	3541
WINTERNITZ	0301
WORLDVIEW	0051 0301
XLOGIC	3841
XRYPTON	2551 2791
X-VIEW	3851
YAMAHA	3611
YAMISHI	2551 2791 3921
YOKAN	2551 2791
YOKO	0051 0301 1181 2201 2551 2791 3601 3831 3911 3921
YORK	0051
ZANUSSI	0721 1901 3921
ZENITH	0051






8. Symbols and Icons

Symbols on HDT-610R

Symbol	Meaning
	The product complies with applicable EU directives.
	Do not dispose of with normal household waste.
	The equipment has additional insulation and does not need to be earthed.
	Alternating Current.
	USB connector.
	HDMI logo This logo tells you that the receiver incorporates High-Definition Multimedia Interface technology.
	Dolby Digital Plus logo
	Freeview+ HD logo This logo tells you that this equipment is capable of receiving free-to-air digital terrestrial signals in the UK and has built in recorder.
	HD logo This logo tells you the receiver is capable of receiving and displaying HD content.

Information Icons

Icon	When displayed (programme guide or info bar)
	Contains one or more subtitle components.
	Does not contain any subtitles.
	Contains a Dolby Digital Plus audio component.
	Contains a Dolby Digital audio component, but not Dolby Digital Plus.
	Contains an Audio Description component.
	Does not contain an Audio Description component.
	Contains more than one audio language component.
	Contains only one audio language component.
	Broadcast in more than one discreet part with one or more other programmes between the parts.
	The current output resolution on HDMI is 576p .
	The current output resolution on HDMI is 720p .
	The current output resolution on HDMI is 1080i .
	The current output resolution on HDMI is 1080p .
	The programme is broadcast in SD. An HD version of the programme is also available at the same, or at an earlier, or at a later, time on a different channel.
	Programme has an associated recommendation.
	This is a radio service (audio only).
	This is a text only (i.e. MHEG) service.
	A future recording has been scheduled for this programme.
	This programme is currently being recorded.

	A Reminder has been set for this programme.
	Channel N/A.
	This is a TV service (audio and video).
	This recording is subject to parental guidance.
	This recording is locked or This channel is locked
	This recording has not been viewed (or has had its <i>New status</i> restored after viewing – see page 34).
	This recording was not completed successfully.
	This event is broadcast in HD (720p, 1080i, or 1080p).
	This programme is part of a series.
	Text service available on this channel.
	Text service unavailable on this channel.

You can register your product and
receive the latest news on updates
and support by visiting us at:

www.myechoStar.com

Customer Helpline: 0845 123 3003

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and www.facebook.com/myechoStar

For further information about Freeview,
please go to www.freeview.co.uk

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